



3 1761 04278 1682

41

Please Note following Corrections in 1896 Catalogue

Page	Old Malleable fitting list cancelled—See new list.
213	Figure 706 list price No. 1. Vise should be \$6.00 instead of \$16.00.
216	“ 719 should read (No 1 cuts $\frac{1}{8}$ to $1\frac{1}{4}$) (No. 2 cuts $\frac{1}{2}$ to $2\frac{1}{2}$)
272	Figures opposite list prices should correspond with figures over cuts
287	“ 999 to 1002 should read “ Price per Doz.”
307	“ 10 88 ⁷ should be fig. 1077 $\frac{1}{2}$.
423	“ 1424 { 5 ft. Steel Clad Bath No.2, list price should be \$23.00 instead of \$24.50 5 ft. 6 in. “ “ No. 2, “ “ \$25.00 “ \$26.50
424	“ 1426 New Pattern Wood Bath—cancelled.
507	“ 1748 list price 66 gal. Boiler should read \$35.00 instead of \$25.00.
516	“ 1797 No. 1 should read No. 3.
516	“ 1799 No. 3 “ “ No. 1.
552	“ 1965 should read figure 1995.
556	“ 2011 “ “ “ 2015.
573	“ 2093 in list should read figure 2092.
573	“ 2094 “ “ “ 2093.
573	“ 2094 list prices are No. 1. \$4.70, No. 2 \$5.40.
574	“ 2097 “ “ No. 2 Urinal should read \$9.10 instead of \$8.10.
584	Alter figures over lists, figure 2129 to 2130. figure 2130 to 2129.
596	“ 2188-2191 add 60c. to list prices.
597	Memo at bottom of page should read—add 60c. to all above lists. Note, printed list prices are for Traps without hand hole or vent.
604	Figures opposite list prices should correspond with figures over cuts.

Illustrated Catalogue and Price List

—OF—

STEAM GAUGES

ENGINEERS', PLUMBERS', STEAM FITTERS'

AND GAS-FITTERS'

BRASS GOODS

ELECTRIC FITTINGS,

Iron Pipe, Malleable and Cast Iron Fittings,
Plumbers' Earthenware,

COPPER AND CAST IRON GOODS,

—TOOLS—

FOR ENGINEERS, PLUMBERS, STEAM AND GAS FITTERS.

—MANUFACTURED AND FOR SALE BY—

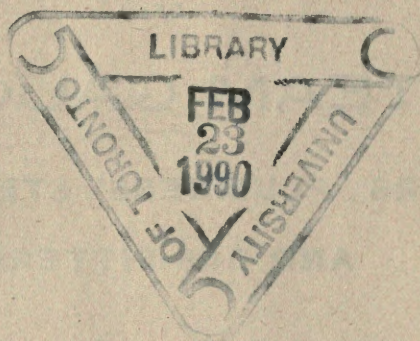
The James Morrison Brass Mfg. Co.

(LIMITED)

**Nos. 91 to 97 Adelaide Street West
TORONTO**

1895

Shepard Bros. & Co., Printers, 67 Adelaide Street W., Toronto



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Entered according to Act of Parliament, at the office
of the Honorable the Minister of Agriculture, at Ottawa,
in the year of our Lord one thousand eight hundred and
ninety-five, by The JAMES MORRISON BRASS MANUFACTUR-
ING CO., LTD., Toronto, Ontario.

PREFACE TO FOURTH EDITION.

THE JAMES MORRISON BRASS MANUFACTURING COMPANY, as the successors of James Morrison, find it necessary to issue a new illustrated Catalogue and Price List, in consequence of the former edition being exhausted. In preparing this edition care has been taken to eliminate anything which has become obsolete, and to add such new articles as have come into use since the former edition was printed, in 1888.

As it is the intention to proceed with a purely Sanitary Catalogue as soon as the General Catalogue is completed, it has not been thought desirable or necessary to give any special prominence to Sanitary Appliances in this edition. With this exception, the form and general arrangement of the 1888 edition, which has given such universal satisfaction to the Trade, will be adhered to as closely as necessary changes will permit.

THE JAMES MORRISON BRASS MFG. CO., LTD., would take this opportunity to thank the friends and customers of James Morrison for the liberal support bestowed on him during the thirty years in which he carried on the business on his own account and to state that nothing shall be wanting on their part to merit the support of their customers.

THE JAMES MORRISON BRASS MFG. CO., Ltd.

TORONTO, 1st Oct., 1895.

TERMS, ETC.



Prices Subject to Change Without Notice



All claims for correction or deduction must be made within ten days after receipt of goods.

All Goods at the RISK of the purchaser after shipment.

In ordering, please specify Catalogue figures, to avoid mistakes.

Customers will confer a favor by not returning any Goods shipped to them in error, without first corresponding with us, as in a great many of such cases, arrangements can be made which will obviate the necessity of returning the Goods.

**SPECIAL BRASS WORK AND BRASS CASTINGS MADE
TO ORDER.**

Wrought Iron Pipe

FOR GAS, STEAM AND WATER.

Table of Standard Dimensions and Sizes.

CANADIAN STANDARD.

NOMINAL INSIDE DIAMETER INCHES.	ACTUAL INSIDE DIAMETER INCHES.	ACTUAL OUTSIDE DIAMETER INCHES.	STANDARD WEIGHT PER FOOT IN LBS.	NUMBER OF THREADS PER INCH OF SCREW.	PRICE PER FOOT.	
					BLACK.	GALVANIZED
$\frac{1}{8}$	.27	.405	.24	27	.05	.05
$\frac{1}{4}$	.36	.54	.42	18	.06	.06
$\frac{3}{8}$	.49	.675	.56	18	.07	.07
$\frac{1}{2}$	.62	.84	.85	14	.08 $\frac{1}{2}$	.08 $\frac{1}{2}$
$\frac{3}{4}$	.82	1.05	1.12	14	.12	.12
1	1.04	1.315	1.67	11 $\frac{1}{2}$	.17	.17
1 $\frac{1}{4}$	1.38	1.66	2.25	11 $\frac{1}{2}$	.24	.24
1 $\frac{1}{2}$	1.61	1.90	2.69	11 $\frac{1}{2}$	.30	.30
2	2.06	2.375	3.66	11 $\frac{1}{2}$	.43	.43

AMERICAN STANDARD.

Butt Welded	$\frac{1}{8}$	.27	.405	.24	27	.05 $\frac{1}{2}$	.08
	$\frac{1}{4}$	.36	.54	.42	18	.05 $\frac{1}{2}$	.07 $\frac{1}{2}$
	$\frac{3}{8}$	.49	.675	.56	18	.05 $\frac{1}{2}$	.07 $\frac{1}{2}$
	$\frac{1}{2}$	.62	.84	.84	14	.08$\frac{1}{2}$	.09 $\frac{1}{2}$
	$\frac{3}{4}$	.82	1.05	1.12	14	.10$\frac{1}{2}$	.11 $\frac{1}{2}$
	1	1.04	1.315	1.67	11 $\frac{1}{2}$	.16$\frac{1}{2}$	.16
	1 $\frac{1}{4}$	1.38	1.66	2.24	11 $\frac{1}{2}$	.22$\frac{1}{2}$	.22
	1 $\frac{1}{2}$	1.61	1.90	2.68	11 $\frac{1}{2}$	.27	.31
	2	2.06	2.375	3.61	11 $\frac{1}{2}$	.36	.42
	2 $\frac{1}{2}$	2.46	2.875	5.74	8	.57$\frac{1}{2}$	.62
Lap Welded	3	3.06	3.50	7.54	8	.75$\frac{1}{2}$	.80
	3 $\frac{1}{2}$	3.54	4.00	9.00	8	.95	.98
	4	4.02	4.50	10.66	8	1.08	1.16
	4 $\frac{1}{2}$	4.50	5.00	12.34	8	1.30	1.50
	5	5.04	5.563	14.50	8	1.45	1.75
	6	6.06	6.625	18.76	8	1.85	2.20
	7	7.02	7.625	23.27	8	2.36	3.00
	8	7.98	8.625	28.18	8	2.82	3.70
	9	8.992	9.68	33.70	8	3.75	
	10	10.018	10.75	40.06	8	4.75	
	11	11.00	11.75	45.00	8	6.00	
	12	12.00	12.75	48.98	8	7.00	
	13	13.25	14.00	53.92	8	8.50	
	14	14.25	15.00	57.89	8	10.00	
	15	15.40	16.00	66.00	8	12.00	
	16	16.40	17.00	70.00	8		
	17	17.30	18.00	75.00	8		

NOTE:—All Sizes up to, and including 8 Inches, carried in Stock. Larger Sizes Imported to Order.

Wrought Iron Pipe.

X Heavy

X X Heavy

X Heavy

	NOMINAL INSIDE DIAMETER INCHES.	ACTUAL INSIDE DIAMETER INCHES.	ACTUAL OUTSIDE DIAMETER INCHES.	THICKNESS INCHES.	NOMINAL WEIGHT PER FOOT.	NUMBER OF THREADS PER INCH OF SCREW.	INTERNAL AREA IN SQ. INCHES.	PRICE PER FOOT.
Lap Welded.	$\frac{1}{8}$	.205	.405	.100	.29	27	.03	.11
	$\frac{1}{4}$	.294	.54	.123	.54	18	.06	.11
	$\frac{3}{8}$	.421	.675	.127	.74	18	.13	.11
	$\frac{1}{2}$	.542	.84	.149	1.09	14	.23	.14
	$\frac{3}{4}$	.736	1.05	.157	1.39	14	.45	.17
	1	.951	1.315	.182	2.17	11 $\frac{1}{2}$	.71	.23 $\frac{1}{2}$
	1 $\frac{1}{4}$	1.272	1.66	.194	3.00	11 $\frac{1}{2}$	1.27	.31
Butt Welded.	1 $\frac{1}{2}$	1.494	1.90	.203	3.63	11 $\frac{1}{2}$	1.75	.52
	2	1.933	2.375	.221	5.02	11 $\frac{1}{2}$	2.93	.70
	2 $\frac{1}{2}$	2.315	2.875	.280	7.67	8	4.20	1.04
	3	2.892	3.50	.304	10.25	8	6.56	1.36
	3 $\frac{1}{2}$	3.358	4.00	.321	12.47	8	8.85	1.62
	4	3.818	4.50	.341	14.97	8	11.44	1.90
	4 $\frac{1}{2}$	4.25	5.00	.350	17.60	8	14.18	2.50
	5	4.813	5.563	.375	20.54	8	18.19	2.84
	6	5.75	6.625	.437	28.58	8	25.93	3.70

X X Heavy

Lap Welded.	$\frac{3}{8}$	.23	.675	.22	.96	18	.04	.22
	$\frac{1}{2}$	.244	.84	.298	1.70	14	.04	.28
	$\frac{3}{4}$	.422	1.05	.314	2.44	14	.13	.34
	1	.587	1.315	.364	3.65	11 $\frac{1}{2}$	.27	.47
	1 $\frac{1}{4}$	.885	1.66	.388	5.20	11 $\frac{1}{2}$	.61	.62
	1 $\frac{1}{2}$	1.088	1.90	.406	6.45	11 $\frac{1}{2}$	.93	1.04
	2	1.49	2.375	.442	9.48	11 $\frac{1}{2}$	1.74	1.40
Butt Welded.	2 $\frac{1}{2}$	1.755	2.875	.560	13.30	8	2.41	2.73
	3	2.284	3.50	.608	17.70	8	4.09	3.57
	3 $\frac{1}{2}$	2.716	4.00	.642	22.00	8	5.79	4.25
	4	3.136	4.50	.682	24.70	8	7.72	5.00
	4 $\frac{1}{2}$	3.56	5.00	.72	32.45	8	9.96	6.56
	5	4.063	5.563	.75	37.10	8	12.96	7.45
	6	4.875	6.625	.78	50.10	8	20.10	9.25
	7	5.98	7.625	.82	60.34	8	28.16	12.25
	8	6.88	8.625	.87	71.52	8	37.17	14.75

X Heavy and X X Heavy Pipe not kept in Stock, but supplied to Order.

Cutting and Screwing Pipe

Size.....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8
Cut—Price each.	.05	.05	.05	.05	.06	.07	.08	.10	.15	.20	.25	.35	.50	.60	.80	1.00	1.20
Thread “ “	.05	.05	.05	.05	.06	.07	.08	.10	.15	.20	.25	.35	.50	.60	.80	1.00	1.20

NOTE: Pipe Cut and Screwed to Specification.

REVISED CLASSIFICATION AND PRICE LIST

(SUPERCEDING ALL PREVIOUS CLASSIFICATIONS)

Malleable Iron, Gas, Water and Steam Fittings**ADOPTED BY MANUFACTURERS JUNE 19th, 1895****CLASS A.****Price, 30 cents per pound.**

Elbows, $\frac{3}{8}$, $\frac{1}{2}$ x $\frac{3}{8}$, $\frac{3}{8}$ x $\frac{1}{2}$
 Tees, $\frac{3}{8}$, $\frac{1}{2}$ x $\frac{1}{2}$, $\frac{1}{2}$ x $\frac{3}{8}$, $\frac{3}{8}$ x $\frac{1}{2}$.
 R. and L. Couplings, $\frac{3}{8}$ in.

Couplings, R. H., $\frac{1}{8}$ in.
 Ells. R. and L., $\frac{1}{4}$, $\frac{3}{8}$ in.
 R. and L. Return Bends, $\frac{3}{8}$, $\frac{1}{2}$ in.

CLASS B.**Price, 20 cents per pound.**

Elbows, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{8}$ x $\frac{1}{2}$, $\frac{1}{2}$ x $\frac{1}{2}$ in.
 Tees, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ x $\frac{3}{8}$, $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{4}$, $\frac{3}{8}$ x $\frac{1}{2}$, $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{3}{8}$.
 Elbows, Side Outlets, $\frac{1}{2}$ in. and smaller.
 Tees, Side Outlets, $\frac{1}{2}$ in. and smaller.
 Street Ells, $\frac{1}{4}$, $\frac{3}{8}$ in.
 Crosser, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ in.
 Reducing Crosses, 1 in. and smaller.
 Drop Ells and Tees, $\frac{1}{2}$ in. and smaller.
 Caps, $\frac{1}{4}$, $\frac{3}{8}$ in.
 Lock Nuts, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ in.
 Reducing Couplings, $\frac{3}{8}$ x $\frac{1}{2}$ to $\frac{3}{4}$ x $\frac{3}{8}$, inclusive.

Extension pieces, $\frac{3}{8}$ and $\frac{1}{2}$ in.
 R. and L. Couplings, $\frac{1}{4}$, $\frac{3}{8}$ in.
 R. Hand Couplings, $\frac{1}{4}$, $\frac{3}{8}$ in.
 R. and L. Elbows, $\frac{1}{2}$ in.
 Waste Nuts, $\frac{3}{4}$ and smaller.
 Chandelier Hooks, all sizes.
 Return Bends, $\frac{3}{8}$ and $\frac{1}{2}$ in.
 Return Bends, R. and L. $\frac{3}{4}$, 1 in.
 Wall Plates, all sizes.
 45° Ells, $\frac{1}{2}$ in. and smaller.
 Y's $\frac{1}{2}$, $\frac{3}{4}$ in.

CLASS C.**Price, 16 cents per pound.**

Elbows, $\frac{1}{2}$ and $\frac{1}{2}$ x $\frac{3}{8}$.
 Elbows, R. and L. $\frac{3}{4}$, 1 in.
 Tees, $\frac{1}{2}$ and $\frac{1}{2}$ in., Reducing.
 Elbows, Side Outlets, $\frac{3}{4}$ in. and larger.
 Tees, Side Outlets, $\frac{3}{4}$ in. and larger.
 Street Ells, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{3}{4}$ x $\frac{1}{2}$, 1 x $\frac{3}{4}$ in.
 Crosses, 1 and $\frac{1}{2}$ in., straight.
 Drop Ells, $\frac{3}{4}$ and larger.
 Drop Tees, $\frac{3}{4}$ and larger.
 Caps, $\frac{1}{2}$, $\frac{3}{4}$ and 1 in.

Lock Nuts, $\frac{3}{4}$, 1, $1\frac{1}{2}$ in.
 Reducing Couplings, $\frac{3}{4}$ x $\frac{1}{2}$ to 1 in. inclusive
 R. and L. Couplings, $\frac{1}{2}$, $\frac{3}{4}$ in.
 R. H. Couplings, $\frac{1}{2}$, $\frac{3}{4}$ in.
 Extension Pieces, $\frac{3}{4}$ in. and larger.
 Waste Nuts, 1 in. and larger.
 Return Bends, $\frac{3}{4}$, 1 in.
 45° Ells, $\frac{3}{4}$ to 2 in., inclusive.
 Y's, 1 in. and larger.
 Return Bends, R. and L. $1\frac{1}{2}$ in. and larger.

CLASS D**Price, 13 cents per pound.**

Elbows and Tees, $\frac{3}{4}$ and 1 in.
 Crosses, $1\frac{1}{2}$ in. and larger.
 Street Ells, 1 in. and larger.
 Caps, $1\frac{1}{2}$ in. and larger.
 Lock Nuts, $1\frac{1}{2}$ in. and larger.
 Such Fittings as have smaller outlets than $\frac{3}{4}$ in will be classed "C."

Reducing Couplings, $1\frac{1}{2}$ in. and larger.
 R. H. Couplings, 1 in. and $1\frac{1}{2}$ in.
 Return Bends, $1\frac{1}{2}$ in. and larger.
 R. and L. Couplings, 1 in. and larger.
 45° Elbow, $2\frac{1}{2}$ in. and larger.

CLASS E.**Price, 11 cents per pound.**

Elbows and Tees, $1\frac{1}{2}$ in. and larger. Right Hand Couplings, $1\frac{1}{2}$, 2 in. Such Fittings in this class that have outlets smaller than 1 in. to be classed "D."

The run of Tees, (Bullheads,) gives the size for the purpose of classification, and the outlet being larger does not change it.

Return Bends reduced, Return Bends spread, Elbows tapped on pitch, - - - 15 per cent. added.

Galvanized Fittings, as per Standard List.

A**B****C****D****E**

Price per lb. 40 cents. 27 cents. 23 cents. 20 cents. 18 cents.

An extra charge of 10 cents per lb. will be added to price of Galvanized Fittings not enumerated in Standard List.

Malleable Fittings not Standard threads, 15 per cent. higher.

Extra Heavy Malleable Fittings, made from Cast Iron Patterns, same as above List. Special discount.

CLASSIFICATION AND PRICE LIST

—OF—

Malleable Iron Gas, Water, and Steam Fittings

CLASS A.

Price, 25 cents per pound

Elbows, $\frac{1}{4}$, $\frac{1}{4} \times \frac{1}{2}$, $\frac{3}{4} \times \frac{1}{2}$.
 Tees, $\frac{1}{4}$, $\frac{1}{4} \times \frac{1}{4}$, $\frac{1}{4} \times \frac{1}{2}$, $\frac{3}{4} \times \frac{1}{2}$.
 Reducing Couplings, $\frac{1}{4} \times \frac{1}{4}$, $\frac{3}{4} \times \frac{1}{2}$.

CLASS B.

Price, 16 cents per pound.

Elbows and Tees, from $\frac{1}{4}$ to $\frac{1}{2}$, inclusive.
 Street Elbows, $\frac{3}{4}$ and smaller.
 Elbows and Tees, Side Outlets, all sizes.
 Crosses, 1 in. and smaller.
 Drop L's and Drop Tees, all sizes.
 Caps and Lock-Nuts 1 in. and smaller.
 Reducing Couplings, $\frac{3}{4} \times \frac{1}{4}$ to 1 in., inclusive.
 Plugs, $\frac{3}{4}$ to 1 in., inclusive.
 Extension Pieces.
 Right and Left Couplings, $\frac{1}{4}$ to $\frac{3}{4}$, inclusive.
 Right and Left Fittings to 1 in., inclusive.
 Right-Hand Couplings, $\frac{1}{4}$ to $\frac{3}{4}$ inclusive.
 Waste Nuts, Chandelier Hooks and Loops.
 Return Bends, to 1 in., inclusive.
 Wall Plates.
 45° Elbows, all sizes.
 Y's, all sizes.

CLASS C.

Price, 13 cents per pound.

Elbows and Tees, $\frac{3}{4}$ to 1 in., inclusive.
 Street Elbows, 1 in. and larger.
 Crosses, $1\frac{1}{4}$ in. and larger.
 Caps and Lock-Nuts, $1\frac{1}{4}$ in. and larger.
 Reducing Couplings, $1\frac{1}{4}$ in. and larger.
 Right and Left Fittings, $1\frac{1}{4}$ in. and larger.
 Plugs, $1\frac{1}{4}$ and larger.
 Right and Left Couplings, 1 in. and larger.
 Return Bends, $1\frac{1}{4}$ in. and larger.
 Right Hand Couplings, 1 in. and $1\frac{1}{4}$ in.
 Straps, not tinned, all sizes.
 Such Fittings with smaller holes than $\frac{3}{4}$ will be classed B.

CLASS D.

Price, 11 cents per pound.

Elbows and Tees $1\frac{1}{4}$ and larger. Such Fittings, in this class, as have one or more outlets smaller than 1 in., will be classed C.
 Right-Hand Couplings, $1\frac{1}{4}$ and 2 in.

Return Bends reduced,	}	-	-	-	-	-	-	15 per cent. added.
" " spread.								
Elbows—Tapped on Pitch,								

Galvanized Fittings, as per Standard List.

	A	B	C	D
Price per lb.	35 cents.	23 cents.	20 cents.	18 cents.

An extra charge of 10 cents per lb. will be added to price of Galvanized Fittings not enumerated in Standard List.

Malleable Fittings not standard threads, 15 per cent. higher.

Extra Heavy Malleable Fittings, made from Cast Iron Patterns, same as above List. Special discount.

STANDARD LIST

—OF—

Galvanized Malleable Iron Fittings.

Elbows $\frac{3}{8}$, $\frac{1}{2}$, $\frac{1}{2} \times \frac{3}{8}$, $\frac{3}{4}$, $\frac{3}{4} \times \frac{1}{2}$, $1 \times \frac{3}{4}$, $1\frac{1}{4}$, $1\frac{1}{4} \times 1$, $1\frac{1}{2}$, $1\frac{1}{2} \times 1\frac{1}{4}$,
2, $2 \times 1\frac{1}{2}$, $2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4 inches

Street Elbows $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 inches

45° Elbows $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 inches

Tees

$\frac{3}{8}$ inches	1 x $1\frac{1}{4}$ inches	$1\frac{1}{2}$ inches
$\frac{1}{2} \times \frac{3}{8}$ "	$1\frac{1}{4} \times 1 \times 1$ "	$1\frac{1}{2} \times 2$ "
$\frac{1}{2}$ "	$1\frac{1}{4} \times 1 \times 1\frac{1}{4}$ "	$2 \times 1\frac{1}{2} \times 1\frac{1}{2}$ "
$\frac{1}{2} \times \frac{3}{4}$ "	$1\frac{1}{4} \times \frac{1}{2}$ "	$2 \times \frac{1}{2}$ "
$\frac{3}{4} \times \frac{1}{2}$ "	$1\frac{1}{4} \times \frac{3}{4}$ "	$2 \times \frac{3}{4}$ "
$\frac{3}{4} \times \frac{1}{2} \times \frac{3}{4}$ "	$1\frac{1}{4} \times 1$ "	2×1 "
$\frac{3}{4} \times \frac{3}{8}$ "	$1\frac{1}{4}$ "	$2 \times 1\frac{1}{4}$ "
$\frac{3}{4} \times \frac{1}{2}$ "	$1\frac{1}{4} \times 1\frac{1}{2}$ "	$2 \times 1\frac{1}{2}$ "
$\frac{3}{4}$ "	$1\frac{1}{2} \times 1\frac{1}{4} \times 1\frac{1}{4}$ "	$2 \times 1\frac{1}{2} \times 2$ "
$\frac{3}{4} \times 1$ "	$1\frac{1}{2} \times 1\frac{1}{4} \times 1\frac{1}{2}$ "	2 "
$1 \times \frac{3}{4} \times \frac{3}{4}$ "	$1\frac{1}{2} \times \frac{1}{2}$ "	$2\frac{1}{2}$ "
$1 \times \frac{3}{4} \times 1$ "	$1\frac{1}{2} \times \frac{3}{4}$ "	3 "
$1 \times \frac{1}{2}$ "	$1\frac{1}{2} \times 1$ "	$3\frac{1}{2}$ "
$1 \times \frac{3}{4}$ "	$1\frac{1}{2} \times 1\frac{1}{4}$ "	4 "
1 "		

Couplings, Right Hand, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 inches

" Right and Left, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 "

" Reducing $\frac{3}{4} \times \frac{1}{2}$, $1 \times \frac{3}{4}$, $1\frac{1}{4} \times 1$, $1\frac{1}{2} \times 1\frac{1}{4}$, $2 \times 1\frac{1}{2}$ "

Crosses, Straight Sizes, - - $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 "

Locknuts - - - $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 "

Female Drop Elbow and Tees - $\frac{1}{2}$, $\frac{3}{4}$ inch

Other Sizes of Galvanized Fittings to Order. For Prices see Classification List.

Malleable Iron Fittings.

Elbows

Fig. 1

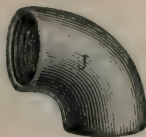


Fig. 2



Fig. 3



Plain, without Bead, for Gas.

With Bead, for Steam and Water.

45°

NO.	SIZE	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.
1	$\frac{1}{8}$	$5\frac{1}{2}$ P	29	2 x $\frac{1}{2}$	195
2	$\frac{1}{4}$ x $\frac{1}{8}$	9 P	29 $\frac{1}{2}$	2 x $\frac{3}{4}$	196
3	$\frac{3}{8}$ x $\frac{1}{8}$	$14\frac{3}{4}$ P	30	2 x 1	188
4	$\frac{1}{4}$	10	31	2 x $1\frac{1}{4}$	196
5	$\frac{3}{8}$ x $\frac{1}{4}$	16	32	2 x $1\frac{1}{2}$	178
6	$\frac{3}{8}$	$17\frac{1}{2}$	33	2	214
7	$\frac{1}{2}$ x $\frac{1}{4}$	$23\frac{1}{2}$	36	$2\frac{1}{2}$ x $1\frac{1}{2}$	280
8	$\frac{1}{2}$ x $\frac{3}{8}$	$22\frac{1}{4}$	37	$2\frac{1}{2}$ x 2	380
9	$\frac{1}{2}$	26	38	$2\frac{1}{2}$	385
11	$\frac{3}{4}$ x $\frac{3}{8}$	45	39	3 x $1\frac{1}{2}$	500
12	$\frac{3}{4}$ x $\frac{1}{2}$	38	40	3 x 2	460
13	$\frac{3}{4}$	$41\frac{1}{2}$	41	3 x $2\frac{1}{2}$	536
15	1 x $\frac{3}{8}$	$52\frac{3}{4}$	42	3	592
16	1 x $\frac{1}{2}$	60	45	$3\frac{1}{2}$ x 3	806
17	1 x $\frac{3}{4}$	$60\frac{1}{2}$	46	$3\frac{1}{2}$	830
18	1	$65\frac{1}{4}$	47	4 x 2	800
21	$1\frac{1}{4}$ x $\frac{3}{4}$	91	48	4 x 3	930
22	$1\frac{1}{4}$ x 1	98	49	4 x $3\frac{1}{2}$	950
23	$1\frac{1}{4}$	97	50	4	1250
25	$1\frac{1}{2}$ x $\frac{3}{4}$	130	51	$4\frac{1}{2}$	1750
26	$1\frac{1}{2}$ x 1	106	52	5	2080
27	$1\frac{1}{2}$ x $1\frac{1}{4}$	144	53	6	3250
28	$1\frac{1}{2}$	128			

Fig. 3—45° Elbows

NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.
54 A	$\frac{3}{8}$		54 G	2	175 B
54 B	$\frac{1}{2}$	$24\frac{1}{2}$ B	54 H	$2\frac{1}{2}$	309 B
54 C	$\frac{3}{4}$	$33\frac{1}{2}$ B	54 I	3	593 B
54 D	1	54 B	54 J	$3\frac{1}{2}$	726 B
54 E	$1\frac{1}{4}$	88 B	54 K	4	900 B
54 F	$1\frac{1}{2}$	119 B			

P. means, Gas Pattern only.

B. means, Beaded Pattern only.

Fittings without mark, are both Gas and Beaded up to 2 inches inclusive.

Fittings $2\frac{1}{2}$ inches, are Beaded only.

Fittings 3 inches and larger, with Band only.

The Approximate Weights are for Beaded, except when made only in Gas Pattern.

In ordering, be particular to mention Beaded or Gas.

Malleable Iron Fittings.

Street Elbows

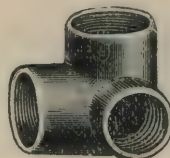
Fig. 4



Male and Female Thread.

Elbows

Fig. 5

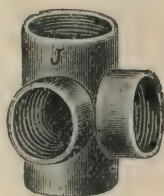


With Side Outlet.

NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE. S. O.	APPROXIMATE WEIGHT PER 100 IN LBS.
58	$\frac{1}{4}$	13 B	77	$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{4}$	14 P
59	$\frac{3}{8}$	$16\frac{1}{4}$ B	78	$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	16 P
60	$\frac{1}{2}$	$27\frac{3}{4}$ B	80	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$	23 P
61	$\frac{3}{4}$ x $\frac{1}{2}$	45 B	81	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$	28 P
62	$\frac{3}{4}$	$49\frac{1}{2}$ B	83	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{8}$	29 P
64	1 x $\frac{3}{4}$	62 B	84	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{2}$	31 P
65	1	65 B	85	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$	32 P
67	$1\frac{1}{4}$ x 1	88 B	87	1 x 1 x $\frac{3}{8}$	48 P
68	$1\frac{1}{4}$	102 B	88	1 x 1 x $\frac{1}{2}$	54 P
71	$1\frac{1}{2}$ x $1\frac{1}{4}$	146 B	89	1 x 1 x $\frac{3}{4}$	50 P
72	$1\frac{1}{2}$	159 B	90	1 x 1 x 1	58 P
74	2 x $1\frac{1}{2}$	225 B	94	$1\frac{1}{4}$ x $1\frac{1}{4}$ x 1	108 P
75	2	252 B	95	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $1\frac{1}{4}$	118 P
$75\frac{1}{2}$	$2\frac{1}{2}$		$95\frac{1}{2}$	$1\frac{1}{2}$	151 P
76	3				

Four Way Tees

Fig. 6



NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.
96	$\frac{1}{2}$	28 P	99	$1\frac{1}{4}$	130 P
97	$\frac{3}{4}$	40 P	$99\frac{1}{2}$	$1\frac{1}{2}$	153 P
98	1	99 P			

P. means, Plain, or, Gas Pattern only.

B. means, Beaded Pattern only.

Fittings without mark, are both **Gas** and **Beaded** up to 2 inches inclusive.Fittings $2\frac{1}{2}$ inches, are **Beaded** only.Fittings 3 inches and Larger, with **Band** only.

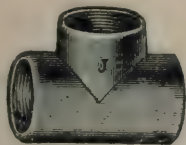
The approximate Weights are for Beaded only, except when made only in Gas Pattern.

Malleable Iron Fittings.

Tees

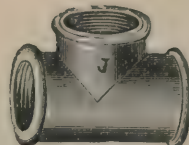
In describing Tees the *run* is first named,
then the outlet, thus:

Fig. 7.



$$\frac{1}{2} \text{ } \perp \text{ } \frac{1}{4} = \frac{1}{2} \times \frac{3}{4} \times \frac{1}{4}$$

Fig. 8.



$$\frac{1}{2} \text{ } \perp \text{ } \frac{1}{2} = \frac{1}{2} \times \frac{3}{4} \times \frac{1}{2}$$

NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.
100	$\frac{1}{8}$	9 P	155	$\frac{3}{4}$ x $\frac{3}{8}$	41
101	$\frac{1}{8}$ x $\frac{1}{4}$	9 $\frac{1}{2}$ P	156	$\frac{3}{4}$ x $\frac{1}{2}$	42
105	$\frac{1}{4}$ x $\frac{1}{8}$ x $\frac{1}{8}$	10 $\frac{1}{2}$ P	157	$\frac{3}{4}$ x 1	50 $\frac{1}{2}$
106	$\frac{1}{4}$ x $\frac{1}{8}$	9 $\frac{3}{4}$ P	158	$\frac{3}{4}$ x 1 $\frac{1}{4}$	63
119	$\frac{3}{8}$ x $\frac{1}{8}$	12 $\frac{1}{4}$ P	159	1 x $\frac{1}{2}$ x $\frac{1}{2}$	114
107	$\frac{1}{4}$	12	161	1 x $\frac{3}{8}$ x $\frac{1}{2}$	54
108	$\frac{1}{4}$ x $\frac{3}{8}$	17	162	1 x $\frac{3}{8}$ x $\frac{3}{4}$	63
114	$\frac{3}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$	18 $\frac{1}{2}$	163	1 x $\frac{3}{8}$ x 1	78 $\frac{1}{2}$
115	$\frac{3}{8}$ x $\frac{1}{4}$ x $\frac{3}{8}$	18	164	1 x $\frac{3}{8}$ x 1 $\frac{1}{4}$	98 $\frac{1}{2}$
120	$\frac{3}{8}$ x $\frac{1}{4}$	17	165	1 x $\frac{1}{2}$ x $\frac{3}{8}$	56
121	$\frac{3}{8}$	18 $\frac{1}{2}$	166	1 x $\frac{1}{2}$ x $\frac{1}{2}$	63
122	$\frac{3}{8}$ x $\frac{1}{2}$	23 $\frac{3}{4}$	167	1 x $\frac{1}{2}$ x $\frac{3}{4}$	67 $\frac{1}{2}$
127	$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{3}{8}$	24 $\frac{1}{2}$	168	1 x $\frac{1}{2}$ x 1	73
128	$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{2}$	28 $\frac{1}{2}$	169	1 x $\frac{1}{2}$ x 1 $\frac{1}{4}$	108
129	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{1}{4}$	24 $\frac{3}{4}$	170	1 x $\frac{3}{4}$ x $\frac{3}{8}$	58 $\frac{1}{2}$
130	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$	23	171	1 x $\frac{3}{4}$ x $\frac{1}{2}$	60
131	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{1}{2}$	27	172	1 x $\frac{3}{4}$ x $\frac{3}{4}$	71 $\frac{1}{4}$
132	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{4}$	40	173	1 x $\frac{3}{4}$ x 1	72
134	$\frac{1}{2}$ x $\frac{1}{4}$	23	174	1 x $\frac{3}{4}$ x 1 $\frac{1}{4}$	105
135	$\frac{1}{2}$ x $\frac{3}{8}$	25 $\frac{1}{2}$	175	1 x $\frac{1}{4}$	59 $\frac{1}{4}$
136	$\frac{1}{2}$	29 $\frac{1}{8}$	176	1 x $\frac{3}{8}$	62
137	$\frac{1}{2}$ x $\frac{3}{4}$	41	177	1 x $\frac{1}{2}$	64
137 $\frac{1}{2}$	$\frac{1}{2}$ x 1	71	178	1 x $\frac{3}{4}$	71
138	$\frac{1}{2}$ x 1 $\frac{1}{4}$	120	179	1	75
139	$\frac{3}{4}$ x $\frac{1}{4}$ x $\frac{3}{4}$	48	180	1 x 1 $\frac{1}{4}$	100
140	$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{3}{8}$	45	180 $\frac{1}{2}$	1 x 1 $\frac{1}{2}$	112
146	$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{1}{2}$	43	180 $\frac{3}{4}$	1 x 2	195
147	$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{3}{4}$	48	181	1 $\frac{1}{4}$ x $\frac{3}{8}$ x 1	114
148	$\frac{3}{4}$ x $\frac{3}{8}$ x 1	66	182	1 $\frac{1}{4}$ x $\frac{3}{8}$ x 1 $\frac{1}{4}$	133
149	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{4}$	38	183	1 $\frac{1}{4}$ x $\frac{1}{2}$ x $\frac{3}{4}$	104
150	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{3}{8}$	42	184	1 $\frac{1}{4}$ x $\frac{1}{2}$ x 1	108
151	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{2}$	44	185	1 $\frac{1}{4}$ x $\frac{1}{2}$ x 1 $\frac{1}{4}$	133 $\frac{1}{4}$
152	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{3}{4}$	50 $\frac{1}{4}$	186	1 $\frac{1}{4}$ x $\frac{3}{4}$ x $\frac{1}{2}$	106
153	$\frac{3}{4}$ x $\frac{1}{2}$ x 1	65	188	1 $\frac{1}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$	100
154	$\frac{3}{4}$ x $\frac{1}{4}$	44			

P. means, Gas Pattern only.

B. means, Beaded Pattern only.

Fittings without mark, are both Gas and Beaded up to 2 inches inclusive.

Fittings 2 $\frac{1}{2}$ inches, are Beaded only.

Fittings 3 inches and larger, with Band only.

The Approximate Weights are for Beaded, except when made only in Gas Pattern.

In ordering, be particular to mention Beaded or Gas.

Malleable Iron Fittings.

Tees Continued.

NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.
189	1 $\frac{1}{4}$ x 3 $\frac{3}{4}$ x 1	116	227	2 x 1 x 2	224
190	1 $\frac{1}{4}$ x 3 $\frac{3}{4}$ x 1 $\frac{1}{4}$	132	227 $\frac{1}{2}$	2 x 1 $\frac{1}{4}$ x 1 $\frac{1}{4}$	201 $\frac{1}{2}$
191	1 $\frac{1}{4}$ x 1 x 3 $\frac{3}{8}$	81	228	2 x 1 $\frac{1}{4}$ x 1 $\frac{1}{2}$	231
192	1 $\frac{1}{4}$ x 1 x 1 $\frac{1}{2}$	92	230	2 x 1 $\frac{1}{4}$ x 2	236
193	1 $\frac{1}{4}$ x 1 x 3 $\frac{3}{4}$	100	230 $\frac{1}{4}$	2 x 1 $\frac{1}{2}$ x 3 $\frac{3}{4}$	222
194	1 $\frac{1}{4}$ x 1 x 1	116	230 $\frac{1}{2}$	2 x 1 $\frac{1}{2}$ x 1	224
195	1 $\frac{1}{4}$ x 1 x 1 $\frac{1}{4}$	106 $\frac{1}{4}$	231	2 x 1 $\frac{1}{2}$ x 1 $\frac{1}{4}$	209 $\frac{1}{2}$
196	1 $\frac{1}{4}$ x 1 x 1 $\frac{1}{2}$	145	232	2 x 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$	224
197	1 $\frac{1}{4}$ x 3 $\frac{3}{8}$	89	233	2 x 1 $\frac{1}{2}$ x 2	244
198	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$	82	234	2 x 3 $\frac{3}{8}$	154
199	1 $\frac{1}{4}$ x 3 $\frac{3}{4}$	106 $\frac{1}{2}$	235	2 x 1 $\frac{1}{2}$	160
200	1 $\frac{1}{4}$ x 1	107	236	2 x 3 $\frac{3}{4}$	161
201	1 $\frac{1}{4}$	132	237	2 x 1	181
202	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$	156	238	2 x 1 $\frac{1}{4}$	203
202 $\frac{1}{2}$	1 $\frac{1}{4}$ x 2	169	239	2 x 1 $\frac{1}{2}$	220
203	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 1	131	240	2	268 $\frac{1}{2}$
204	1 $\frac{1}{2}$ x 3 $\frac{3}{8}$ x 1 $\frac{1}{2}$	167	249	2 x 2 $\frac{1}{2}$	320 $\frac{1}{2}$
205	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 1 $\frac{1}{2}$	164	252	2 $\frac{1}{2}$ x 1	315
205 $\frac{1}{2}$	1 $\frac{1}{2}$ x 3 $\frac{3}{4}$ x 1	115	253	2 $\frac{1}{2}$ x 1 $\frac{1}{4}$	295
206	1 $\frac{1}{2}$ x 3 $\frac{3}{4}$ x 1 $\frac{1}{4}$	140	254	2 $\frac{1}{2}$ x 1 $\frac{1}{2}$	300
207	1 $\frac{1}{2}$ x 3 $\frac{3}{4}$ x 1 $\frac{1}{2}$	155	255	2 $\frac{1}{2}$ x 2	348
209	1 $\frac{1}{2}$ x 1 x 3 $\frac{3}{4}$	110	256	2 $\frac{1}{2}$	470
210	1 $\frac{1}{2}$ x 1 x 1	125	257	2 $\frac{1}{2}$ x 3	538
211	1 $\frac{1}{2}$ x 1 x 1 $\frac{1}{4}$	151	258	3 x 1	525
212	1 $\frac{1}{2}$ x 1 x 1 $\frac{1}{2}$	154 $\frac{1}{2}$	265	3 x 1 $\frac{1}{4}$	530
213	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ x 1 $\frac{1}{2}$	113 $\frac{1}{2}$	266	3 x 1 $\frac{1}{2}$	532
214	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ x 3 $\frac{3}{4}$	112 $\frac{1}{2}$	267	3 x 2	610
215	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ x 1	127 $\frac{1}{2}$	268	3 x 2 $\frac{1}{2}$	632
216	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ x 1 $\frac{1}{4}$	144	269	3	745
217	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ x 1 $\frac{1}{2}$	160	269 $\frac{1}{2}$	3 $\frac{1}{2}$ x 2	
219	1 $\frac{1}{2}$ x 3 $\frac{3}{8}$	104	280	3 $\frac{1}{2}$ x 2 $\frac{1}{2}$	770
220	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$	112	281	3 $\frac{1}{2}$ x 3	950
221	1 $\frac{1}{2}$ x 3 $\frac{3}{4}$	116	282	3 $\frac{1}{2}$	1003
222	1 $\frac{1}{2}$ x 1	128	291	4 x 2	1110
223	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$	156	292	4 x 2 $\frac{1}{2}$	1182 $\frac{1}{2}$
224	1 $\frac{1}{2}$	160	293	4 x 3	1245
224 $\frac{1}{2}$	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ x 2	198	294	4 x 3 $\frac{1}{2}$	1513
225	1 $\frac{1}{2}$ x 2	180	295	4	1465
225 $\frac{1}{2}$	2 x 3 $\frac{3}{8}$ x 2	236	296	4 $\frac{1}{2}$	
226	2 x 1 $\frac{1}{2}$ x 2	226	297	5	2690
226 $\frac{1}{2}$	2 x 3 $\frac{3}{4}$ x 2	240	298	6	4600

P. means, Plain, or Gas Pattern only.

B. means, Beaded Pattern only.

Fittings without mark, are both **Gas** and **Beaded** up to 2 inches inclusive.

Fittings 2 $\frac{1}{2}$ inches are Beaded only.

Fittings 3 inches and larger with **Band** only.

The approximate weights are for Beaded, except when made only in Gas Pattern.

In ordering, be particular to mention **Beaded** or **Gas**.

Malleable Iron Fittings.

Fig. 9



Fig. 10



Crosses

The outlets of a Cross are always the same size.

NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.
305	$\frac{1}{4}$	15 $\frac{3}{4}$	361	$1\frac{1}{4} \times \frac{1}{2}$	106
311	$\frac{3}{8} \times \frac{1}{4} \times \frac{1}{4}$	17 $\frac{3}{4}$ P	362	$1\frac{1}{4} \times \frac{3}{4}$	118
312	$\frac{3}{8} \times \frac{1}{4}$	23	363	$1\frac{1}{4} \times 1$	132
313	$\frac{3}{8}$	24	364	$1\frac{1}{4}$	158
316	$\frac{1}{2} \times \frac{3}{8} \times \frac{1}{4}$	24 P	368	$1\frac{1}{2} \times 1\frac{1}{4} \times 1\frac{1}{4}$	158 P
317	$\frac{1}{2} \times \frac{3}{8} \times \frac{3}{8}$	27 P	369	$1\frac{1}{2} \times \frac{3}{8}$	119
318	$\frac{1}{2} \times \frac{3}{8} \times \frac{1}{2}$	28 $\frac{1}{2}$ P	370	$1\frac{1}{2} \times \frac{1}{2}$	114 $\frac{1}{2}$
319	$\frac{1}{2} \times \frac{1}{4} \times \frac{3}{8}$	27	371	$1\frac{1}{2} \times \frac{3}{4}$	132
320	$\frac{1}{2} \times \frac{3}{8}$	28	372	$1\frac{1}{2} \times 1$	146
321	$\frac{1}{2}$	31	373	$1\frac{1}{2} \times 1\frac{1}{4}$	185
328	$\frac{3}{4} \times \frac{3}{8} \times \frac{1}{2}$	39 P	374	$1\frac{1}{2}$	198
330	$\frac{3}{4} \times \frac{1}{2} \times \frac{3}{8}$	39 P	378	$2 \times \frac{3}{8}$	157
330 $\frac{1}{2}$	$\frac{3}{4} \times \frac{1}{2} \times \frac{3}{4}$	50 P	379	$2 \times \frac{1}{2}$	180
331	$\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$	44 $\frac{1}{2}$ P	380	$2 \times \frac{3}{4}$	194
332	$\frac{3}{4} \times \frac{1}{4}$	50 $\frac{1}{4}$	381	2×1	226
334	$\frac{3}{4} \times \frac{3}{8}$	50	382	$2 \times 1\frac{1}{4}$	252
335	$\frac{3}{4} \times \frac{1}{2}$	52	383	$2 \times 1\frac{1}{2}$	262
336	$\frac{3}{4}$	64	384	2	288
340	$1 \times \frac{1}{2} \times \frac{3}{8}$	52 P	388	$2\frac{1}{2} \times 1\frac{1}{4}$	318
345	$1 \times \frac{3}{4} \times \frac{3}{8}$	52 P	389	$2\frac{1}{2} \times 1\frac{1}{2}$	340
346	$1 \times \frac{3}{4} \times \frac{1}{2}$	62 P	390	$2\frac{1}{2} \times 2$	380
347	$1 \times \frac{3}{4} \times \frac{3}{4}$	64 P	391	$2\frac{1}{2}$	600
350	$1 \times \frac{3}{8}$	68 $\frac{1}{2}$	391 $\frac{1}{2}$	$3 \times 1\frac{1}{2}$	520
351	$1 \times \frac{1}{2}$	69	392	3×2	613
352	$1 \times \frac{3}{4}$	72	393	$3 \times 2\frac{1}{2}$	688
353	1	92	394	3	881
357	$1\frac{1}{4} \times 1 \times \frac{3}{4}$	96 P	396	$3\frac{1}{2}$	1030
358	$1\frac{1}{4} \times 1 \times 1$	105 P	397	4	1427
360	$1\frac{1}{4} \times \frac{3}{8}$	90			

P. means, Gas Pattern only.

B. means, Beaded Pattern only.

Fittings without mark, are both Gas and Beaded up to two inches inclusive.

Fittings 2 $\frac{1}{2}$ inches, are Beaded only.

Fittings 3 inches and larger, with Band only.

The Approximate Weights are for Beaded, except when made only in Gas Pattern.

In ordering, be particular to mention Beaded or Gas.

Malleable Iron Fittings.

Drop Elbows

Fig. 11.



Female Both Ends.

NO.	SIZE.	DROP.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	DROP.	APPROXIMATE WEIGHT PER 100 IN LBS.
402	$\frac{1}{4}$ X $\frac{1}{4}$		15 $\frac{1}{2}$ P	406 $\frac{1}{2}$	$\frac{1}{2}$ X $\frac{3}{8}$		28 $\frac{3}{4}$ P
403	$\frac{3}{8}$ X $\frac{1}{4}$		20 P	407	$\frac{3}{4}$ X $\frac{1}{2}$		41 $\frac{1}{2}$ P
404	$\frac{3}{8}$ X $\frac{3}{8}$		18 P	408	$\frac{3}{4}$ X $\frac{3}{4}$		36 P
406	$\frac{1}{2}$ X $\frac{1}{2}$		26 $\frac{1}{2}$ P	410	1 X 1		52 $\frac{1}{2}$ P

Fig. 12.



With Short Outlet.

Drop Elbows Male and Female

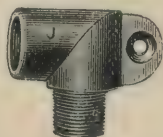
Fig. 13.



With Long Outlet.

NO.	SIZE.	DROP.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	DROP.	APPROXIMATE WEIGHT PER 100 IN LBS.
411	$\frac{1}{8}$ X $\frac{3}{8}$		17 P	422	$\frac{1}{4}$ X $\frac{3}{8}$		22 P
413	$\frac{1}{4}$ X $\frac{3}{8}$		15 $\frac{1}{2}$ P	423	$\frac{3}{8}$ X $\frac{3}{8}$		25 $\frac{3}{4}$ P
414	$\frac{3}{8}$ X $\frac{3}{8}$		19 P				
415	$\frac{1}{2}$ X $\frac{3}{8}$		32 P				

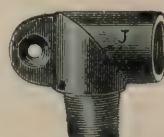
Fig. 14.



Flange Right Side.

Drop Elbows Flanges. Right and Left

Fig. 15.



Flange Left Side.

NO.	SIZE.	DROP.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	DROP.	APPROXIMATE WEIGHT PER 100 IN LBS.
431	$\frac{1}{4}$ X $\frac{3}{8}$		13 $\frac{1}{2}$ P	436	$\frac{1}{4}$ X $\frac{3}{8}$		13 $\frac{1}{2}$ P
432	$\frac{3}{8}$ X $\frac{3}{8}$		17 P	437	$\frac{3}{8}$ X $\frac{3}{8}$		17 P

P. means, plain, or Gas Pattern only.

B. means, beaded Pattern only.

Fittings without mark, are both **Plain** and **Beaded** up to 2 inches inclusive.

Fittings 2 $\frac{1}{2}$ inches are Beaded only.

Fittings 3 inches and larger with Band only.

The approximate weights are for Beaded, except when made only in Plain Pattern.

Malleable Iron Fittings.

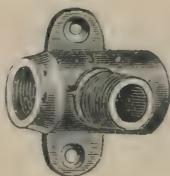
Drop Tees

Fig. 16.



Female.

Fig. 17.



Male and Female, Short Outlet.

Fig. 18.



Male and Female, Long Outlet.

NO.	SIZE.	DROP.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	DROP.	APPROXIMATE WEIGHT PER 100 IN LBS.
447	3/8 x 1/4	1/4	18 1/4 P	458	3/4 x 1/2	3/8	49 P
449	3/8 x 1/4	1/4	17 3/4 P	459	3/4 x 3/4	1/4	39 P
450	3/8 x 3/8	3/8	19 1/2 P	460	3/4 x 3/4	3/8	44 P
450 1/2	1/2 x 1/4	1/2	29 1/2 P	461	3/4 x 3/4	1/2	45 P
451	1/2 x 3/8	1/4	24 P	462	3/4 x 3/4	3/4	57 P
452	1/2 x 3/8	3/8	26 P	463	1 x 3/4	3/8	59 P
453	1/2 x 1/2	1/4	28 P	466	1 x 1	3/8	58 P
454	1/2 x 1/2	3/8	27 1/4 P	467	1 x 1	1/2	61 P
455	1/2 x 1/2	1/2	27 P	469	1 x 1	3/4	P
457	3/4 x 1/2	1/2	43 P	470	1 x 1	1	P

Fig. 17. Drop Tees, Male and Female, Short Outlet

NO.	SIZE.	DROP.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	DROP.	APPROXIMATE WEIGHT PER 100 IN LBS.
471	1/4 x 1/4	3/8	17 P	477	3/4 x 3/4	3/8	31 1/2 P
472	3/8 x 1/4	3/8	18 P	478	1 x 3/4	3/8	58 3/4 P
473	3/8 x 3/8	3/8	16 1/2 P	479	1 x 1	3/8	51 3/4 P
474	1/2 x 3/8	3/8	31 1/2 P	With drop 2 1/2 in. long. Fig. 18.			
475	1/2 x 1/2	3/8	25 1/4 P	480	3/8 x 3/8	3/8	25 1/2 P
476	3/4 x 1/2	3/8	43 P	481	1/4 x 1/4	3/8	25 1/2 P

Caps

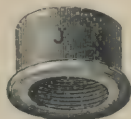


Fig. 19.

NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.	NO.	SIZE.	APPROXIMATE WEIGHT PER 100 IN LBS.
486	1/4	5 P	492	1 1/2	68
487	3/8	7 1/2 P	493	2	100
488	1/2	12 1/4	494	2 1/2	188
489	3/4	19 1/4	495	3	262
490	1	34 1/2	496	3 1/2	310
491	1 1/4	58	497	4	468

P means plain, or Gas Pattern only,

Malleable Iron Fittings.

Fig. 20.

Plain.



Reducing Couplings

Fig. 21.

Beaded



NO.	SIZE.	APPROXIMATE WEIGHT PER 100. IN LBS.	NO.	SIZE.	APPROXIMATE WEIGHT PER 100. IN LBS.
519	$\frac{1}{4}$ x $\frac{1}{8}$	6 P	534 $\frac{3}{4}$	2 x $\frac{1}{2}$	84 $\frac{1}{2}$
520	$\frac{3}{8}$ x $\frac{1}{8}$	10 $\frac{1}{2}$ P	535	2 x $\frac{3}{4}$	91
521	$\frac{3}{8}$ x $\frac{1}{4}$	11 P	536	2 x 1	100
522	$\frac{3}{8}$ x $\frac{1}{2}$	14 $\frac{1}{2}$ P	537	2 x 1 $\frac{1}{4}$	98
523	$\frac{1}{2}$ x $\frac{1}{2}$	15 P	538	2 x 1 $\frac{1}{2}$	105 $\frac{1}{4}$
523 $\frac{1}{2}$	$\frac{3}{4}$ x $\frac{1}{2}$	23 P	538 $\frac{1}{2}$	2 $\frac{1}{2}$ x $\frac{3}{4}$	
524	$\frac{3}{4}$ x $\frac{3}{8}$	22 P	539	2 $\frac{1}{2}$ x 1	185
525	$\frac{3}{4}$ x $\frac{1}{2}$	22 $\frac{1}{2}$ P	540	2 $\frac{1}{2}$ x 1 $\frac{1}{4}$	174 $\frac{1}{2}$
525 $\frac{1}{2}$	1 x $\frac{1}{4}$	30	541	2 $\frac{1}{2}$ x 1 $\frac{1}{2}$	177
526	1 x $\frac{3}{8}$	32	542	2 $\frac{1}{2}$ x 2	189
527	1 x $\frac{1}{2}$	33 $\frac{1}{2}$	543	3 x 1	256
528	1 x $\frac{3}{4}$	34 $\frac{3}{4}$	544	3 x 1 $\frac{1}{4}$	280
528 $\frac{1}{4}$	1 $\frac{1}{4}$ x $\frac{1}{4}$	44	545	3 x 1 $\frac{1}{2}$	250
528 $\frac{1}{2}$	1 $\frac{1}{4}$ x $\frac{3}{8}$	50	546	3 x 2	265
529	1 $\frac{1}{4}$ x $\frac{1}{2}$	42 $\frac{1}{2}$	547	3 x 2 $\frac{1}{2}$	300
530	1 $\frac{1}{4}$ x $\frac{3}{4}$	41 $\frac{1}{2}$	547a	3 $\frac{1}{2}$ x 1 $\frac{1}{2}$	
531	1 $\frac{1}{4}$ x 1	46 $\frac{1}{2}$	547b	3 $\frac{1}{2}$ x 2	
531 $\frac{1}{8}$	1 $\frac{1}{2}$ x $\frac{1}{4}$	60	547 $\frac{1}{2}$	3 $\frac{1}{2}$ x 2 $\frac{1}{2}$	362
531 $\frac{1}{4}$	1 $\frac{1}{2}$ x $\frac{3}{8}$	60	548	3 $\frac{1}{2}$ x 3	370
531 $\frac{1}{2}$	1 $\frac{1}{2}$ x $\frac{1}{2}$	58	548a	4 x 1	
532	1 $\frac{1}{2}$ x $\frac{3}{4}$	62	548 $\frac{1}{2}$	4 x 2	430
533	1 $\frac{1}{2}$ x 1	70	549	4 x 2 $\frac{1}{2}$	505
534	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$	68	550	4 x 3	480
534 $\frac{1}{4}$	2 x $\frac{1}{4}$	83	550 $\frac{1}{2}$	4 x 3 $\frac{1}{2}$	495
534 $\frac{1}{2}$	2 x $\frac{3}{8}$	94			

Extension Pieces

Fig. 22.



MALE AND FEMALE.

NO.	SIZE.	APPROXIMATE WEIGHT PER 100. IN LBS.	NO.	SIZE.	APPROXIMATE WEIGHT PER 100. IN LBS.
561	$\frac{3}{8}$ x $\frac{3}{8}$	10	563	$\frac{3}{4}$ x $\frac{3}{4}$	28
562	$\frac{1}{2}$ x $\frac{1}{2}$	19 $\frac{1}{2}$	564	1 x 1	41 $\frac{1}{2}$
			565	1 x $\frac{3}{4}$	39
			566	1 $\frac{1}{4}$ x $\frac{3}{4}$	48

Couplings

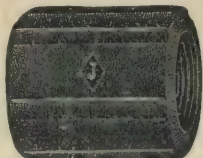


Fig. 23.

RIGHT and LEFT.

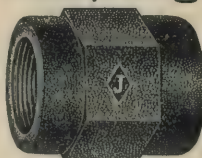


Fig. 24.

HEXAGON COUPLINGS.

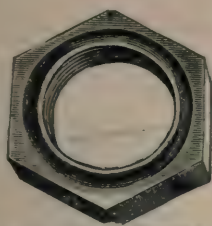


Fig. 25.

RIGHT HAND.

NO.	SIZE.	Apprx. Wt. per 100. R. & L. Coup.	Apprx. Wt. per 100. Hex. Coup.	NO.	SIZE.	Apprx. Wt. per 100. R. & L. Coup.	Apprx. Wt. per 100. Hex. Coup.	NO.	SIZE.	Apprx. Wt. per 100.	Apprx. Wt. per 100. Beaded	NO.	SIZE.	Apprx. Wt. per 100.	Apprx. Wt. per 100. Beaded
570	$\frac{1}{8}$			575	1	53 $\frac{1}{4}$	45 $\frac{1}{4}$	587	$\frac{1}{8}$	43 P		592	1	47 $\frac{1}{2}$ P	
571	$\frac{1}{4}$	7 $\frac{1}{4}$		576	1 $\frac{1}{4}$	80 $\frac{1}{2}$	68	588	$\frac{1}{4}$	6 $\frac{1}{4}$ P	7 $\frac{1}{2}$	593	1 $\frac{1}{4}$	70 P	
572	$\frac{3}{8}$	13	11	577	1 $\frac{1}{2}$	115	99	589	$\frac{3}{8}$	10 $\frac{1}{2}$ P		594	1 $\frac{1}{2}$	97 P	
573	$\frac{1}{2}$	20 $\frac{1}{2}$	18 $\frac{3}{4}$	578	2	170	148 $\frac{1}{2}$	590	$\frac{1}{2}$	18 P		595	2	148 P	
574	$\frac{3}{4}$	29 $\frac{3}{4}$	30					591	$\frac{3}{4}$	27 $\frac{1}{4}$ P					

Malleable Iron Fittings.

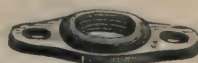


LOCKNUTS.
Fig. 26.

STRAPS.
Fig. 27.



WASTE NUTS.
Fig. 28.



WALL PLATES.

Fig. 29.



Fig. 26. LOCKNUTS.

NO.	SIZE.	APPROX. WGT. PER 100 IN LBS.
601	$1\frac{1}{4}$	$31\frac{1}{2}$
602	$1\frac{3}{8}$	$5\frac{3}{4}$
603	$1\frac{1}{2}$	$7\frac{1}{4}$
604	$1\frac{3}{4}$	$12\frac{3}{4}$
605	1	$17\frac{1}{4}$
606	$1\frac{1}{4}$	$26\frac{1}{4}$
607	$1\frac{1}{2}$	34
608	2	50
609	$2\frac{1}{2}$	185
610	3	195
611	$3\frac{1}{2}$	270
612	4	495

Fig. 27. STRAPS.

NO.	SIZE.	APPROX. WGT. PER 100 IN LBS.
614	$1\frac{1}{4}$	$21\frac{1}{2}$
615	$1\frac{3}{8}$	$27\frac{1}{2}$
616	$1\frac{1}{2}$	$31\frac{1}{2}$
617	$1\frac{3}{4}$	6
618	1	10
619	$1\frac{1}{4}$	13
620	$1\frac{1}{2}$	$16\frac{1}{2}$
621	2	$21\frac{1}{2}$

Fig. 28. WASTE NUTS.

NO.	SIZE.	APPROX. WGT. PER 100 IN LBS.
625	$1\frac{1}{4}$	5
626	$1\frac{3}{8}$	7
627	$1\frac{1}{2}$	10
628	$1\frac{3}{4}$	$10\frac{1}{2}$
629	1	$14\frac{1}{2}$

Fig. 29. WALL PLATES.

NO.	SIZE.	APPROX. WGT. PER 100 IN LBS.
640	$\frac{3}{8}$	14

Chandelier Hooks.



Fig. 30.



Fig. 31.



Fig. 32.

Fig. 30. LOOP.

NO.	SIZE.	APPROX. WGT. PER 100 IN LBS.
636	$\frac{3}{8}$	$15\frac{1}{2}$
637	$\frac{1}{2}$	20

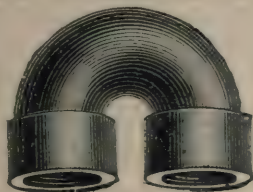
Fig. 31. MALE OPEN HOOK.

NO.	SIZE.	APPROX. WGT. PER 100 IN LBS.
638	$\frac{3}{8}$	$18\frac{1}{4}$
639	$\frac{1}{2}$	$27\frac{1}{4}$

Fig. 32. FEMALE OPEN HOOK.

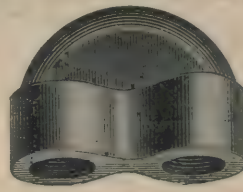
NO.	SIZE.	APPROX. WGT. PER 100 IN LBS.
638	$\frac{3}{8}$	20
639	$\frac{1}{2}$	$21\frac{1}{2}$

Fig. 33.



Open Pattern.

Return Bends.



Close Pattern.

Fig. 34.

NO.	SIZE.	CENTRE TO CENTRE INCHES.	APPROX. WGT. PER 100 IN LBS.	NO.	SIZE.	CENTRE TO CENTRE INCHES.	APPROX. WGT. PER 100 IN LBS.
659	$\frac{3}{8}$	$1\frac{1}{4}$	$21\frac{1}{2}$	665 $\frac{1}{2}$	$\frac{3}{8}$	$1\frac{1}{4}$	20
660	$\frac{1}{2}$	$1\frac{1}{2}$	$41\frac{3}{4}$	666	$\frac{1}{2}$	$1\frac{1}{2}$	35
661	$\frac{3}{4}$	2	$81\frac{3}{4}$	667	$\frac{3}{4}$	$1\frac{3}{4}$	67
662	1	$2\frac{1}{2}$	133	668	1	$1\frac{3}{4}$	100
663	$1\frac{1}{4}$	3	$191\frac{1}{4}$	669	$1\frac{1}{4}$	$2\frac{1}{4}$	164
664	$1\frac{1}{2}$	$3\frac{1}{2}$	$314\frac{1}{2}$	670	$1\frac{1}{2}$	$2\frac{1}{2}$	245
665	2	4	557	671	2	$2\frac{3}{4}$	395
665A	$2\frac{1}{2}$	$4\frac{3}{8}$	750	672	$2\frac{1}{2}$	$3\frac{1}{4}$	625
665B	3	$6\frac{1}{4}$	1085	673	3	$4\frac{1}{4}$	850
665C	$3\frac{1}{2}$	$6\frac{1}{2}$					
665D	4	7					

Malleable Iron Fittings.

Cock Wrenches.

Fig 35



Number	1	2	3	4	5	6	7	8	9
Size—Square	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{16}$	1	$1\frac{3}{16}$	$1\frac{5}{8}$
Approx. Weight per 100 in lbs.	8	9 $\frac{1}{2}$	20	23	35	49	62	100	164

Fig. 33



Hydrant Clamps.

Size	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Price, with square hole....	15	15	15	15
“ Tapped for $\frac{3}{8}$ Pipe....	18	18	18	18
“ “ for $\frac{1}{2}$ “ ..	20	20	20	20

Fig. 37



Pump Rod Couplings

Fig. 38.



Size	$\frac{3}{8}$	$\frac{3}{8} \times \frac{7}{16}$	$\frac{7}{16}$	$\frac{1}{2}$
Number of Threads to inch.....	16	16 x 14	14	12
Price, Malleable Iron, per lb., black.....	25	30	25	25
“ “ “ “ galvanized.....	35	40	35	35

Extra Heavy Malleable Iron Fittings

Made from Cast Iron Fitting Patterns.

Size	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10
Elbows, price each	08	12	15	19	25	40	80	1.15	1.45	1.65	2.25	2.80	4.30	6.25	7.50	9.00	16.00
“ 45° “	10	15	20	28	35	65	1.00	1.50	1.70	2.00	2.60	3.00	4.75	6.25	7.50	9.00	16.00
Tees “	10	15	20	25	30	55	1.00	1.40	1.70	2.00	3.20	3.30	4.60	7.75	9.70	15.00	20.00
Crosses “	16	20	30	37	42	75	1.00	1.70	2.50	2.60	3.85	4.80	7.00	10.00	14.00	20.00	25.00
Reducers “	....	....	20	20	30	35	50	65	1.20	1.40	1.50	1.60	2.25	3.25	4.50	8.00	8.75
Caps “	....	....	....	....	....	20	25	40	90	1.30	1.40	1.50	2.35	4.00	5.00	5.55	6.60
Return Bends, open	....	22	36	50	75	1.00	1.30	2.25	3.00	3.50	....	6.00	8.25	....	....	....	....
Flange Unions	70	80	90	1.00	1.30	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.25	6.50	8.00	10.00	12.00

NOTE.—Elbows and Tees, straight sizes kept in stock. All others made to order.

P. means Gas Pattern only.

B. means Beaded Pattern only.

Fittings without mark are both Gas and Beaded up to 2 inches inclusive.

Fittings $2\frac{1}{2}$ inches are Beaded only.

Fittings 3 inches and larger, with Band only.

The Approximate Weights are for Beaded, except when made only in Gas Pattern.

Malleable Iron Railing Fittings

For Fences, Enclosing Engines and Machinery, Exhibition Spaces, &c.,

Fig. 39.
No. 700.



Fig. 40.
No. 701.



Fig. 41.
No. 702.



Fig. 42.
No. 703.



Fig. 43.
No. 704.



Fig. 44.
No. 705.



Fig. 45.
No. 706.



Fig. 45½.
No. 706½.



Fig. 46.
No. 707.



Fig. 47.
No. 708.



14 Cents per Pound.

Right and Left and Left, 25 per cent. extra in quantity less than 25 pounds.
Right and Left and Left, 15 per cent. extra in larger quantities.

In ordering these Railing Fittings be careful to state whether **right hand** or **left hand** threads are wanted. Where fittings are required having **right and left hand** outlets, please fully describe which are wanted **RIGHT HAND** and which **LEFT HAND**. A careful observance of the above will save much trouble and secure the accurate filling of your orders.

Pipe Size		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
No. 700	Elbow..... price, each	15	18	20	35	45	72	1 00	1 50
" 701	" Side outlet..... " "	20	23	25	40	50	80	1 15	1 70
" 702	Tee..... " "	20	23	25	40	50	75	1 20	1 90
" 703	" Side outlet..... " "	30	33	35	45	55	90	1 40	2 15
" 704	Cross..... " "	30	33	35	45	58	1 00	1 50	2 25
" 705	" Side outlet..... " "	35	38	40	50	65	1 35	1 75	2 60
" 706 & 706½	Floor Flanges..... " "	14	15	15	20	28	30	50	75
" 707	Acorn ornament..... " "	16	18	20	25	35	90	1 00	1 50
" 708	Bushings, reduced one and two sizes..	6	7	10	12	18	28	40	

Approximate Weights, per 100 Pieces of Railing Fittings,

No. 700	Elbow..... lbs	33	64	68	96	136	240		
" 701	" side outlet "	36	67	74	106	144	256		
" 702	Tee..... "	33	64	74	112	148	254		
" 703	" side outlet... "	36	66	84	116	146	263		
" 704	Cross..... "	38	64	83	114	162	264		
" 705	" side outlet. "	40	68	93	124	160	255		
" 706	Floor Flange.... "	36	52	57	76	120	152		
" 707	Acorn ornament. "	24	40	52	84	112	220		

Railings.

Fig. 48.



Fig. 49.



Please Read this Notice with care.—To construct a Railing two pipes high, the upper outlet of all fittings used in lower pipe should be tapped with **Left Hand Thread**, but when orders are sent us without specifying how outlets are to be tapped, **all Fittings will invariably be furnished right hand.**

As the Fittings do not need to be steam or water tight a sufficiently clean thread to screw up well and make a good job can be made by running a **left hand tap** into any outlet tapped **right hand.**

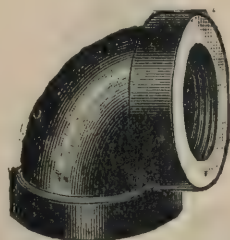
A neat and simple gate can be made by reducing with a bushing the outlets of the fittings on each side of the passage way, and then using a smaller sized pipe to slide back and forward inside of the top rail, with a pin to prevent its running back too far.

Cast Iron Fittings.

For Steam, Gas and Water.

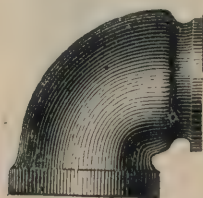
Elbows.

Fig. 50.



Plain.

Fig. 51.



Reducing.

Fig. 52.



Right and Left.

Fig. 53.



45°.

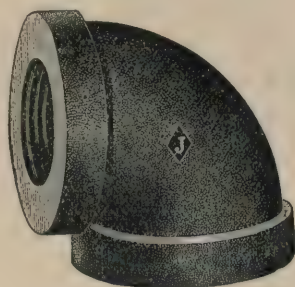
Size, Inches.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$
Fig. 50, Plain, Price Each..	06	09	13	20	25	40	75	1.10	1.35	1.80	2.50
" 51, Reducing, " " ..	07	11	16	23	29	46	85	1.25	1.50	2.10	3.00
" 52, R. & Left, " " ..	07	11	16	23	29	46	85	1.25			
" 53, 45° " " ..	10	15	20	26	35	50	1.30	1.60	1.90	2.50	3.50

Elbows—CONTINUED.

Size, Inches.	5	6	7	8	9	10	11	12	13	14	15
Fig. 50, Plain, Price Each..	2.85	3.90	7.00	10.00	13.00	20.00		30.00		80.00	100.00
" 51, Reducing, " " ..	3.25	4.50	8.00	11.50	15.00	23.00		35.00		90.00	110.00
" 53, 45° " " ..	4.50	5.50	9.00	12.00	15.50	22.00		33.00		80.00	100.00

Cast Iron Elbows. (EXTRA HEAVY.)

Fig. 54.



Elbow.

Fig. 55.



45° Elbow.

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 54, Plain, Price Each	30	35	45	60	75	1.25	2.00	2.75	3.50
" " Reducing, " " ..	40	45	55	75	95	1.55	2.50	3.40	4.40
" " R. & Left, " " ..	40	45	55	75	95				
" 55 45°, " " ..	40	45	55	70	90	1.50	2.50	3.50	

Cast Iron Elbows (EXTRA HEAVY)—CONTINUED.

Size, Inches.	$4\frac{1}{2}$	5	6	7	8	10	12	14	
Fig. 54, Plain, Price Each..	4.25	5.50	8.00	12.00	17.00	28.00	40.00		
" " Reducing, " " ..	5.30	6.80	10.00	15.00	21.00	35.00	50.00		
" 55 45°, " " ..	5.50	6.75	9.75	14.50	21.00	34.00	48.00		

Revised Price List of FITTINGS FOR WROUGHT IRON PIPE.

Size, Inches.	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8	9	10	12
Fig. 50. Elbows C.I.	06	08	10 1/2	16	20	28	50	75	1.05	1.20	1.75	2.00	2.75	4.70	6.75	9.00	13.50	20.00		
" " Reducing	07	09	12	18	23	32	60	85	1.20	1.40	2.00	2.30	3.15	5.40	7.75	10.50	15.50	23.00		
" " R. and L.	07	09	12	18	23	32	60	85	1.25	1.45	2.20	2.50	3.45	5.90	8.50	11.25	17.00	25.00		
" " 45°	07	10	12	19	24	34	60	90	1.25	1.75	2.55	3.00	4.00	6.80	9.75	13.00	19.50	29.00		
Tees. Plain,	09	12	15	23	29	41	73	1.10	1.50	2.00	2.95	3.50	4.60	7.80	11.25	15.00	22.50	33.50		
" " Reducing	10	14	17	27	33	47	83	1.25	1.75	2.00	3.15	3.50	4.60	7.25	10.25	13.50	20.00	30.00		
" " Plain	16	22	27	42	53	75	130	2.00	2.70	3.00	4.60	5.50	7.00	11.00	15.00	20.00	28.00	40.00		
" " Reducing	18	25	30	46	60	83	1.45	2.20	3.00	3.50	5.10	6.00	7.90	12.00	16.00	21.00	29.00	42.00		
" " Y Bends.	20	28	34	54	66	94	1.66	2.50	3.50	4.00	5.90	7.00	9.20	13.50	18.00	24.00	33.00	48.00		
" " Reducing	23	33	40	62	76	1.08	1.90	2.90	4.00	4.60	6.80	8.00	10.60	15.00	20.00	27.00	38.00	55.00		
" " Return Bends, Plain, Close,	18	20	22	28	40	57	1.20	1.70	2.00	2.70	3.50	4.00	5.00	7.00	9.00	11.00	15.00	21.00		
" " Open	26	30	30	40	55	80	1.35	2.20	2.50	3.00	4.00	4.60	5.50	7.50	9.50	11.50	15.50	21.50		
Ret'n Bends, "B'k Outlet	38	42	42	60	80	1.15	2.00	3.00	3.50	4.00	5.00	5.50	6.50	8.50	10.50	12.50	16.50	22.50		
" " Close R. and L.	21	23	26	33	46	66	1.40	1.95	2.50	3.00	4.00	4.60	5.50	7.50	9.50	11.50	15.50	21.50		
" " Open	30	35	35	46	64	92	1.55	2.50	3.00	4.00	5.00	5.50	6.50	8.50	10.50	12.50	16.50	22.50		
" " Pitched	74	80	80	100	125	175	2.70	4.00	4.50	6.00	7.00	8.00	9.00	12.00	16.00	21.00	28.00	40.00		
" " Caps, C.I.,	26	33	33	46	64	92	1.55	2.50	3.00	4.00	5.00	5.50	6.50	8.50	10.50	12.50	16.50	22.50		
" " Reduces, C.I.,	40	46	52	64	78	1.00	1.25	1.50	1.80	2.10	2.70	3.15	3.95	5.50	7.00	8.50	11.00	15.00		
" " Locknuts, "	32	40	40	55	80	1.20	1.25	1.50	1.80	2.10	2.70	3.15	3.95	5.50	7.00	8.50	11.00	15.00		
" " Flge Unions, C.I.,	64	80	80	110	160	1.60	2.40	3.20	4.00	4.50	6.50	7.00	8.25	11.00	13.00	15.00	18.00	22.00		
" " No. 1 Water Elbows, C.I.,	48	60	60	82	120	1.20	1.80	2.40	3.20	3.40	4.90	5.25	6.25	8.00	9.50	11.00	13.00	16.00		
" " No. 2 Dbl. Water Ells, "	85	110	110	150	215	2.15	3.20	4.00	4.80	5.00	7.00	7.50	8.25	10.50	12.00	14.00	16.00	19.00		
" " No. 3 Water Tees	96	120	120	160	240	2.40	3.60	4.50	5.40	5.60	7.50	8.00	8.75	10.50	12.00	14.00	16.00	19.00		
" " No. 4 Water Crosses, "	72	90	90	120	180	1.80	2.70	3.60	4.50	4.80	6.50	7.00	7.75	9.50	11.00	13.00	15.00	18.00		
" " No. 1 Water Elb. Red'g "	45	60	60	80	120	1.20	1.80	2.40	3.20	3.40	4.90	5.25	6.25	8.00	9.50	11.00	13.00	16.00		
" " No. 2 Dbl. Water Ells "	67	85	85	110	160	1.60	2.40	3.20	4.00	4.50	6.50	7.00	8.25	10.50	12.00	14.00	16.00	19.00		
" " No. 3 Water Tees Red'g, C.I.	90	110	110	150	215	2.15	3.20	4.00	4.80	5.00	7.00	7.50	8.25	10.50	12.00	14.00	16.00	19.00		
" " Offsets, C.I. to Offset 4	72	90	90	120	180	1.80	2.70	3.60	4.50	4.80	6.50	7.00	7.75	9.50	11.00	13.00	15.00	18.00		
" " " " 6	45	60	60	80	120	1.20	1.80	2.40	3.20	3.40	4.90	5.25	6.25	8.00	9.50	11.00	13.00	16.00		
" " " " 8	67	85	85	110	160	1.60	2.40	3.20	4.00	4.50	6.50	7.00	8.25	10.50	12.00	14.00	16.00	19.00		
" " Plugs, " Standard	02	02	03	04	05	07	10	18	25	38	42	65	88	1.20	1.85	2.75	3.25	3.75	5.00	
" " " " Solid	04	04	06	08	09	11	15	27	38	57	63	1.00	1.35	1.80	2.80	4.15	5.00	5.75	7.50	
" " Bushings	04	04	05	06	07	09	14	21	30	40	50	75	93	1.25	1.87	2.75	3.25	3.75	5.00	

Revised Price of FITTINGS FOR WROUGHT IRON PIPE.—Continued.

Size, Inches	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6
Fig. 80. Countersunk Plugs.....	Price, each														
" 79. Plugs, Left Hand.....			04	06	08	09	11	15							
" 94. Bushings, Faced.....		08	09	11	13	17	22	32	48	70	1.20	1.50			
" 88. Mal. Iron, Lip Unions.....	18	20	22	27	33	46	58	75	1.55	2.10	3.65	4.35			
" 89. Mal. Iron, Union Elbows, Female			42	54	63	90	1.05	1.55	2.85						
" 91. " " Tees, Male.....			45	57	70	95	1.15	1.70	3.20						
" 90. " " Elbows M. and F.....			48	62	72	1.05	1.20	1.80	3.30						
" 92. " " Tees, " ".....			52	65	80	1.10	1.30	1.95	3.70						
" 87. " " Flange Unions.....			1.25	1.40	1.60	2.00	2.50	3.00	3.50	4.40	5.25	6.00	7.00	8.00	9.00

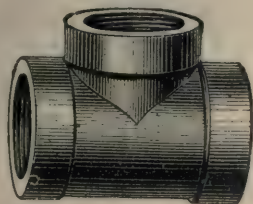
GALVANIZED CAST IRON FITTINGS FOR W. I. PIPE.

Size, Inches	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8
Fig. 50. Elbows, R.H., C.I.....	Price, each																
" 51. " " Reducing " ".....			12	16	21	32	40	56	1.00	1.50	2.10	2.40	3.50	4.00	5.50	9.40	13.50
" 53. " " 45° " ".....			14	18	24	36	46	64	1.20	1.70	2.40	2.80	4.00	4.60	6.30	10.80	15.50
" 56. " " " ".....			14	20	24	38	48	68	1.20	1.80	2.50	2.90	4.40	5.00	6.90	11.80	17.00
" 57. " " Reducing " ".....			18	24	30	46	58	82	1.46	2.20	3.00	3.50	5.10	6.00	8.00	13.60	19.50
" 59. Crosses.....			20	28	34	54	66	94	1.66	2.50	3.50	4.00	5.90	7.00	9.20	15.60	22.50
" 74. Return Bends Close " ".....			32	44	54	84	1.06	1.50	2.60	4.00	5.40	6.30	9.20	11.00	14.50	24.50	35.00
" 75. " " Open " ".....			36	40	44	56	80	1.14	2.40	3.40							
" 87. Flange Unions.....			80	92	1.04	1.28	1.10	1.60	2.70	4.40							
" 94. Bushings.....		08	08	10	12	14	18	28	2.50	3.00	3.60	4.20	5.40	6.30	7.90	11.00	14.00
" 79. Plugs.....	04	04	04	06	08	10	14	20	42	60	80	1.00	1.50	1.85	2.50	3.75	5.50
" 88. Mal. Iron Unions	27	30	33	40	50	70	90	1.15	2.35	3.15	5.50	6.50		1.75	2.40	3.70	5.50
" 89. Mal. Union Elbs., Female			63	81	95	1.35	1.58	2.35	4.30								
" 91. " " Tees " ".....			68	86	1.05	1.45	1.75	2.55	4.80								
" 90. " " Elbs. M. and F.			72	93	1.08	1.60	1.80	2.70	4.95								
" 92. " " Tees " ".....			78	1.00	1.20	1.65	1.95	2.95	5.55								

Cast Iron Fittings.

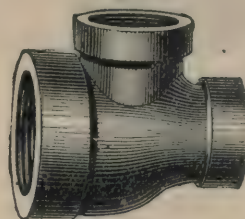
Tees.

Fig. 56.



Plain.

Fig. 57.



Reducing.

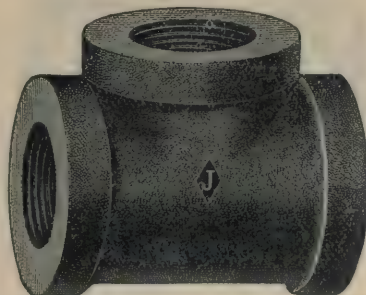
Size, Inches.			$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$
Fig. 56.	Plain.	Price Each.	09	13	20	30	38	60	1.10	1.50	2.00	2.50	3.50
" 57.	Reducing	"	11	15	23	35	44	70	1.25	1.75	2.30	2.90	4.00

Tees—CONTINUED.

Size. Inches.			5	6	7	8	9	10	11	12	13	14	15
Fig. 56.	Plain.	Price Each.	4.00	5.50	10.00	15.00	20.00	25.00		45.00		70.00	
" 57.	Reducing	"	4.60	6.35	11.50	17.00	23.00	30.00		50.00		80.00	

Tees (EXTRA HEAVY.)

Fig. 58.



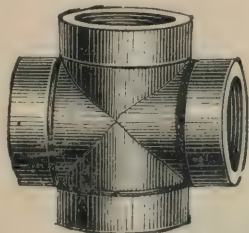
Size, Inches.			$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Plain,	Price Each.		50	55	70	90	1.15	1.80	3.00	4.25	5.50
Reducing	"		65	70	90	1.15	1.40	2.25	3.75	5.30	6.85

Tees, (EXTRA HEAVY)—CONTINUED.

Size, Inches.			$4\frac{1}{2}$	5	6	7	8	10	12	14
Plain,	Price Each.		6.75	8.25	12.00	18.00	25.00	42.00	60.00	
Reducing	"		8.50	10.25	15.00	22.50	31.00	52.00	75.00	

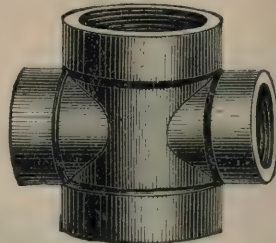
Cast Iron Fittings.

Fig. 59.



Plain.

Fig. 60.



Reducing.

Crosses.

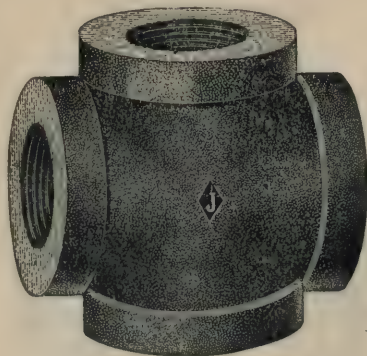
Size, Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 59. Plain, Price Each.	.12	.18	.28	.40	.50	.80	1.50	2.20	2.70	3.50
" 60. Reducing, Price Each.	.14	.21	.32	.46	.58	.92	1.70	2.50	3.00	4.00

Crosses, Continued.

Size, Inches.	$4\frac{1}{2}$	5	6	7	8	9	10	12	14	15
Fig. 59. Plain, Price Each.	5.00	5.70	7.80	14.00	20.00	26.00	40.00	60.00	150.00	185.00
" 60. Reducing, "	6.00	6.60	9.00	16.00	23.00	30.00	46.00	70.00	150.00	185.00

Crosses, Extra Heavy.

Fig. 61.



Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Plain, Price Each	65	70	90	1.20	1.50	2.50	4.00	5.50	7.00
Reducing, "	85	90	1.15	1.50	1.85	3.15	5.00	6.85	8.75

Continued.

Size, Inches.	$4\frac{1}{2}$	5	6	7	8	10	12	14	
Plain, Price Each.	8.50	11.00	16.00	24.00	34.00	56.00	80.00		
Reducing, "	10.00	13.75	20.00	30.00	42.00	70.00	100.00		

Flanged Cast Iron Fittings.

Fig. 62.



Elbows.

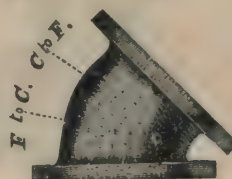


Fig. 63.

Fig. 62. Elbows.

STANDARD.					EXTRA HEAVY.				
SIZE INCHES.	CENTRE TO FACE. INCHES.	DIAMETER OF FLANGE INCHES.	PRICE.		SIZE INCHES.	CENTRE TO FACE. INCHES.	DIAMETER OF FLANGES. INCHES.	PRICE.	
			WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.				WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
2	4 $\frac{1}{2}$	6 $\frac{1}{2}$	\$ 4.00	\$ 4.75	2	4 $\frac{1}{2}$	7	\$ 4.80	\$ 5.50
2 $\frac{1}{2}$	4 $\frac{3}{4}$	7	4.75	5.50	2 $\frac{1}{2}$	4 $\frac{3}{4}$	7 $\frac{1}{2}$	5.70	6.50
3	5 $\frac{1}{2}$	8	5.00	5.75	3	5 $\frac{1}{2}$	8 $\frac{1}{2}$	6.00	6.75
3 $\frac{1}{2}$	5 $\frac{3}{4}$	8 $\frac{1}{2}$	5.25	6.00	3 $\frac{1}{2}$	5 $\frac{3}{4}$	9	6.30	7.05
4	6	9	5.50	6.50	4	6	10	6.60	8.60
4 $\frac{1}{2}$	6 $\frac{1}{4}$	9 $\frac{1}{2}$	6.50	7.50	4 $\frac{1}{2}$	6 $\frac{1}{4}$	10 $\frac{1}{2}$	7.80	8.80
5	7	10	7.50	8.50	5	7	11	9.00	10.00
6	7 $\frac{1}{2}$	11	9.00	10.50	6	7 $\frac{1}{2}$	12	10.80	12.30
7	8 $\frac{1}{2}$	13	12.00	14.00	7	8 $\frac{1}{2}$	13 $\frac{1}{2}$	14.40	16.40
8	9 $\frac{1}{2}$	14	16.00	18.00	8	9 $\frac{1}{2}$	15	19.20	21.20
9	10 $\frac{3}{4}$	15	20.00	22.50	9	10 $\frac{3}{4}$	16	24.00	26.50
10	11 $\frac{1}{2}$	16	26.00	28.50	10	11 $\frac{1}{2}$	17 $\frac{1}{2}$	31.20	33.70
12	12 $\frac{3}{4}$	19	35.00	38.00	12	12 $\frac{3}{4}$	20	42.00	45.00
14	13 $\frac{1}{4}$	21	50.00	55.00	14	13 $\frac{1}{4}$	22	60.00	65.00

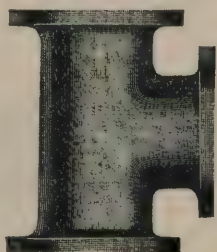
Fig. 63. 45° Elbows.

STANDARD.					EXTRA HEAVY.				
SIZE INCHES	CENTRE TO FACE. INCHES.	DIAMETER OF FLANGES. INCHES.	PRICE.		SIZE INCHES.	CENTRE TO FACE. INCHES.	DIAMETER OF FLANGES. INCHES	PRICE.	
			WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.				WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
2	2 $\frac{1}{2}$	6 $\frac{1}{2}$	\$ 4.50	\$ 5.25	2	2 $\frac{1}{2}$	7	\$ 5.40	\$ 6.15
2 $\frac{1}{2}$	2 $\frac{3}{4}$	7	5.00	5.75	2 $\frac{1}{2}$	2 $\frac{3}{4}$	7 $\frac{1}{2}$	6.00	6.75
3	3	8	5.50	6.25	3	3	8 $\frac{1}{2}$	6.60	7.35
3 $\frac{1}{2}$	3 $\frac{1}{4}$	8 $\frac{1}{2}$	6.00	6.75	3 $\frac{1}{2}$	3 $\frac{1}{4}$	9	7.20	7.95
4	3 $\frac{3}{8}$	9	6.50	7.50	4	3 $\frac{3}{8}$	10	7.80	8.80
4 $\frac{1}{2}$	3 $\frac{1}{2}$	9 $\frac{1}{2}$	7.50	8.50	4 $\frac{1}{2}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	9.00	10.00
5	3 $\frac{3}{4}$	10	9.00	10.00	5	3 $\frac{3}{4}$	11	10.80	11.80
6	4 $\frac{1}{4}$	11	11.00	12.50	6	4 $\frac{1}{4}$	12	13.20	14.70
7	5 $\frac{1}{8}$	13	14.00	16.00	7	5 $\frac{1}{8}$	13 $\frac{1}{2}$	16.80	18.80
8	5 $\frac{1}{2}$	14	19.00	21.00	8	5 $\frac{1}{2}$	15	22.80	24.80
9	5 $\frac{3}{4}$	15	24.00	26.50	9	5 $\frac{3}{4}$	16	28.80	31.30
10	5 $\frac{7}{8}$	16	30.00	32.50	10	5 $\frac{7}{8}$	17 $\frac{1}{2}$	36.00	38.50
12	6 $\frac{1}{2}$	19	40.00	43.00	12	6 $\frac{1}{2}$	20	48.00	51.00
14	7 $\frac{1}{4}$	21	55.00	60.00	14	7 $\frac{1}{4}$	22	66.00	71.00

Flanged Fittings are furnished Faced only, unless otherwise ordered.
Dimensions of Straight and Reducing Sizes are the same.

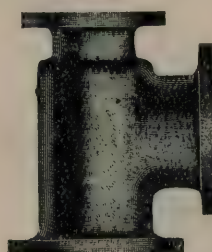
Cast Iron Flanged Fittings.

Fig. 64.
Tees.



Tees.

Fig. 65.
Reducing Tees.



Standard Tees.

Fig. 64. Tees.						Fig. 65. Reducing Tees.		
SIZE. INCHES.	CENTRE TO FACE. INCHES.	FACE TO FACE. INCHES.	DIAMETER OF FLANGES. INCHES.	PRICE.		SIZE. INCHES.	PRICE.	
				WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.		WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
2	4 $\frac{1}{2}$	9	6 $\frac{1}{2}$	6.00	7.00			
2 $\frac{1}{2}$	4 $\frac{3}{4}$	9 $\frac{1}{2}$	7	6.50	7.50			
3	5 $\frac{1}{2}$	11	8	7.00	8.00			
3 $\frac{1}{2}$	5 $\frac{3}{4}$	11 $\frac{1}{2}$	8 $\frac{1}{2}$	7.50	8.50			
4	6	12	9	8.00	9.50	4	9.00	10.50
4 $\frac{1}{2}$	6 $\frac{1}{4}$	12 $\frac{1}{2}$	9 $\frac{1}{2}$	9.50	11.00	4 $\frac{1}{2}$	11.00	12.50
5	7	14	10	11.00	12.50	5	12.50	14.00
6	7 $\frac{1}{2}$	15	11	15.00	17.00	6	17.00	19.00
7	8 $\frac{1}{2}$	17	13	20.00	23.00	7	23.00	26.00
8	9 $\frac{1}{2}$	19	14	26.00	29.00	8	29.50	32.50
9	10 $\frac{3}{4}$	21 $\frac{1}{2}$	15	32.00	36.00	9	36.50	40.50
10	11 $\frac{1}{2}$	23	16	38.00	42.00	10	44.00	48.00
12	12 $\frac{3}{4}$	25 $\frac{1}{2}$	19	50.00	54.00	12	57.00	61.00
14	13 $\frac{1}{4}$	26 $\frac{1}{2}$	21	75.00	83.00	14	85.00	93.00

Extra Heavy Tees.

Fig. 64. Tees.						Fig. 65 Reducing Tees.		
SIZE. INCHES.	CENTRE TO FACE. INCHES.	FACE TO FACE. INCHES.	DIAMETER OF FLANGES. INCHES.	PRICE.		SIZE. INCHES.	PRICE.	
				WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.		WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
2	4 $\frac{1}{2}$	9	7	7.20	8.20			
2 $\frac{1}{2}$	4 $\frac{3}{4}$	9 $\frac{1}{2}$	7 $\frac{1}{2}$	7.80	8.80			
3	5 $\frac{1}{2}$	11	8 $\frac{1}{2}$	8.40	9.40			
3 $\frac{1}{2}$	5 $\frac{3}{4}$	11 $\frac{1}{2}$	9	9.00	10.00			
4	6	12	10	9.60	11.10	4	10.60	12.10
4 $\frac{1}{2}$	6 $\frac{1}{4}$	12 $\frac{1}{2}$	10 $\frac{1}{2}$	11.40	12.90	4 $\frac{1}{2}$	12.90	14.40
5	7	14	11	13.20	14.70	5	14.70	16.20
6	7 $\frac{1}{2}$	15	12	18.00	20.00	6	20.00	22.00
7	8 $\frac{1}{2}$	17	13 $\frac{1}{2}$	24.00	27.00	7	27.00	30.00
8	9 $\frac{1}{2}$	19	15	31.20	34.20	8	34.70	37.70
9	10 $\frac{3}{4}$	21 $\frac{1}{2}$	16	38.40	42.40	9	42.90	46.90
10	11 $\frac{1}{2}$	23	17 $\frac{1}{2}$	45.60	49.60	10	51.60	55.60
12	12 $\frac{3}{4}$	25 $\frac{1}{2}$	20	60.00	64.00	12	67.00	71.00
14	13 $\frac{1}{4}$	26 $\frac{1}{2}$	22	90.00	98.00	14	100.00	108.00

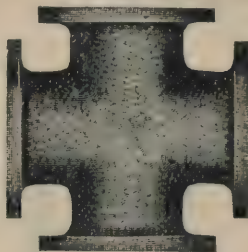
Flanged Fittings are furnished FACED only, unless otherwise ordered.

Dimensions of Straight and Reducing Sizes are the same.

Cast Iron Fittings.

Crosses.

Fig. 66.



Standard.

FIG. 66. CROSSES.

SIZE. INCHES	FACE TO FACE. INCHES.	DIAMETER OF FLANGES. INCHES.	PRICE.	
			WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
2	9	6½	\$ 8.00	\$ 9.50
2½	9½	7	9.00	10.50
3	11	8	10.00	11.50
3½	11½	8½	10.50	12.50
4	12	9	11.00	13.00
4½	12½	9½	13.00	15.00
5	14	10	15.00	17.00
6	15	11	18.00	21.00
7	17	13	25.00	29.00
8	19	14	32.00	36.00
9	21½	15	40.00	45.00
10	23	16	50.00	55.00
12	25½	19	65.00	72.00
14	26½	21	95.00	105.00

FIG. 66. REDUCING CROSSES.

SIZE. INCHES.	PRICE.	
	WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
4	\$ 12.50	\$ 14.50
4½	15.00	17.00
5	17.00	19.00
6	20.50	23.50
7	29.00	33.00
8	36.00	40.00
9	46.00	51.00
10	57.00	62.00
12	75.00	82.00
14	105.00	115.00

Extra Heavy Crosses.

FIG. 66. CROSSES.

SIZE. INCHES	FACE TO FACE. INCHES.	DIAMETER OF FLANGES. INCHES.	PRICE.	
			WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
2	9	7	\$ 9.60	\$ 11.10
2½	9½	7½	10.80	12.30
3	11	8½	12.00	13.50
3½	11½	9	12.60	14.60
4	12	10	13.20	15.20
4½	12½	10½	15.60	17.60
5	14	11	18.00	20.00
6	15	12	21.60	24.60
7	17	13½	30.00	34.00
8	19	15	38.40	42.40
9	21½	16	48.00	53.00
10	23	17½	60.00	65.00
12	25½	20	78.00	85.00
14	26½	22	114.00	124.00

FIG. 66. REDUCING CROSSES.

SIZE. INCHES.	PRICE.	
	WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
4	\$ 15.00	\$ 17.00
4½	18.00	20.00
5	20.40	22.40
6	24.60	27.60
7	34.80	38.80
8	43.20	47.20
9	55.20	60.20
10	68.40	73.40
12	90.00	97.00
14	126.00	136.00

Flanged Fittings are furnished FACED only, unless otherwise ordered.

Dimensions of Straight and Reducing Sizes are the same.

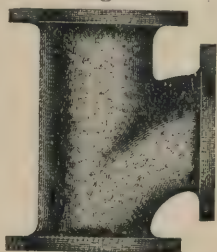
Cast Iron Flanged Fittings.

Tees.

Long Turn, Single Sweep.

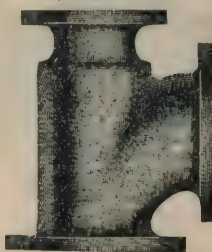
Long Turn Double Sweep.

Fig. 67.



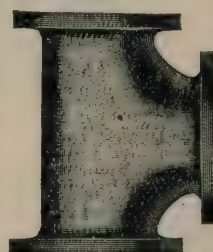
Tees.

Fig. 68.



Reducing Tees.

Fig. 69.



Standard.

FIG. 67. TEES.

SIZE INCHES	CENTRE TO FACE INCHES.	FACE TO FACE INCHES.	DIAMETER OF FLANGES INCHES.	PRICE.	
				WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED
2	4 $\frac{1}{2}$	9	6 $\frac{1}{2}$	7.00	8.00
3	5 $\frac{1}{2}$	11	8	8.00	9.00
4	6	12	9	9.50	10.50
4 $\frac{1}{2}$	6 $\frac{1}{4}$	12 $\frac{1}{2}$	9 $\frac{1}{2}$	11.00	12.50
5	7	14	10	12.50	14.00
6	7 $\frac{1}{2}$	15	11	17.00	19.00
7	8 $\frac{1}{2}$	17	13	23.00	26.00
8	9 $\frac{1}{2}$	19	14	29.50	32.50
9	10 $\frac{3}{4}$	21 $\frac{1}{2}$	15	36.50	40.50
10	11 $\frac{1}{2}$	23	16	44.00	48.00
12	12 $\frac{3}{4}$	25 $\frac{1}{2}$	19	57.00	61.00
14	13 $\frac{1}{4}$	26 $\frac{1}{2}$	21	85.00	93.00

FIG. 68. REDUCING TEES.

SIZE INCHES	PRICE.	
	WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
4	10.50	12.00
4 $\frac{1}{2}$	12.00	13.50
5	14.00	15.50
6	19.00	21.00
7	25.50	28.50
8	33.00	36.00
9	41.00	45.00
10	49.00	53.00
12	63.00	67.00
14	94.00	102.00

Long Turn Double Sweep Tees.

FIG. 69. TEES.

SIZE INCHES	CENTRE TO FACE INCHES.	FACE TO FACE INCHES.	DIAMETER OF FLANGES INCHES.	PRICE.	
				WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
4	6	12	9	9.00	10.50
5	7	14	10	12.50	14.00
6	7 $\frac{1}{2}$	15	11	17.00	19.00
7	8 $\frac{1}{2}$	17	13	23.00	26.00
8	9 $\frac{1}{2}$	19	14	29.50	32.50
9	10 $\frac{3}{4}$	21 $\frac{1}{2}$	15	36.50	40.50
10	11 $\frac{1}{2}$	23	16	44.00	48.00
12	12 $\frac{3}{4}$	25 $\frac{1}{2}$	19	57.00	61.00
14	13 $\frac{1}{4}$	26 $\frac{1}{2}$	21	85.00	93.00

FIG. 69. REDUCING TEES.

SIZE INCHES	PRICE.	
	WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
4	10.00	11.50
5	14.00	15.50
6	19.00	21.00
7	25.50	28.50
8	33.00	36.00
9	41.00	45.00
10	49.00	53.00
12	63.00	67.00
14	94.00	102.00

Flanged Fittings are furnished FACED only, unless otherwise ordered.

Dimensions of Straight and Reducing sizes are the same.

Cast Iron Flanged Fittings.

Lateral Y.

Long Turn Cross.

Fig. 70.

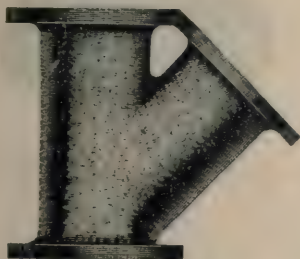


Fig. 71.

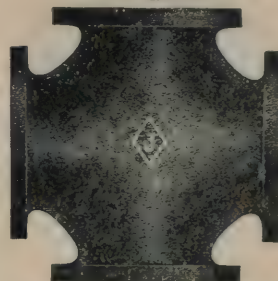


FIG. 70 Y'S.					FIG. 70 REDUCING Y'S.		
SIZE. INCHES.	FACE TO FACE OF RIM. INCHES.	DIAMETER OF FLANGES. INCHES.	PRICE.		SIZE. INCHES.	PRICE.	
			WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED		WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
4	12	9	\$11 00	\$ 13 00	4	\$ 12 50	\$ 14 50
4½	12½	9½	13 00	15 00	4½	15 00	17 00
5	14	10	15 00	17 00	5	17 00	19 00
6	15½	11	18 00	21 00	6	20 50	23 50
7	18¼	13	25 00	29 00	7	29 00	33 00
8	19¾	14	32 00	36 00	8	36 00	40 00
9	22½	15	40 00	45 00	9	46 00	51 00
10	24	16	50 00	55 00	10	57 00	62 00
12	27	19	65 00	72 00	12	75 00	82 00
14	28½	21	95 00	105 00	14	105 00	115 00

Fig. 71 Long Turn Cross.

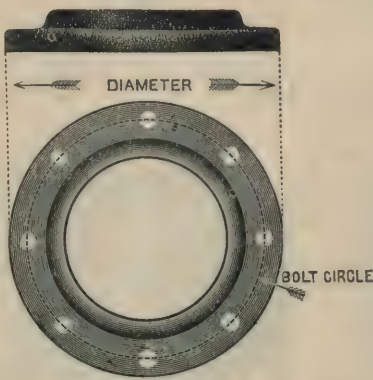
SIZE. INCHES.	FACE TO FACE. INCHES.	DIAMETER OF FLANGES. INCHES.	PRICE.	
			WITH FLANGES FACED.	WITH FLANGES FACED AND DRILLED.
4	12	9	\$ 13.50	\$ 15.50
5	14	10	18.75	20.75
6	15	11	25.50	28.50
7	17	13	34.50	38.50
8	19	14	44.25	48.25
9	21½	15	54.75	59.75
10	23	16	66.00	71.00
12	25½	19	85.50	92.50
14	26½	21	127.50	137.50

Flanged Fittings are furnished FACED only, unless otherwise ordered.

Dimensions of straight and reducing sizes are the same.

Cast Iron Flanges for Flanged Fittings.

Fig. 72.



Common Flange.

Fig. 73.



Blind Flange.

Fig. 72. Common Flanges.				Fig. 73. Blind Flanges.			Table For Drilling.			
PIPE SIZE. INCHES	OUT-SIDE DIAMETER. INCHES	PRICE.		SIZE INCHES	PRICE.		SIZE INCHES	BOLT CIRCLE. INCHES.	NUMBER OF BOLTS.	SIZE OF BOLTS. INCHES.
		FACED EACH.	FACED AND DRILLED EACH.		FACED EACH.	FACED AND DRILLED.				
2	6½	70	1.00	2	88	1.18	2	5	4	1 x 2
2½	7	80	1.10	2½	1.00	1.30	2½	5½	4	x 2½
3	8	1.00	1.30	3	1.25	1.55	3	6	4	x 2½
3½	8½	1.20	1.50	3½	1.50	1.80	3½	6½	4	x 2½
4	9	1.60	2.00	4	2.00	2.40	4	7	8	x 3
4½	9½	1.75	2.20	4½	2.20	2.65	4½	7½	8	x 3
5	10	2.20	2.70	5	2.75	3.25	5	8	8	x 3
6	11	2.60	3.20	6	3.25	3.85	6	9	8	x 3
7	13	3.50	4.25	7	4.38	5.13	7	11	12	x 3
8	14	4.00	4.75	8	5.00	5.75	8	12	12	x 3
9	15	6.00	6.75	9	7.50	8.25	9	13	12	x 3½
10	16	7.00	7.75	10	8.75	9.50	10	14	12	x 3½
12	19	9.00	11.00	12	11.25	13.25	12	17	16	x 3½
14	21	12.50	14.50	14	15.63	17.63	14	18½	16	x 4

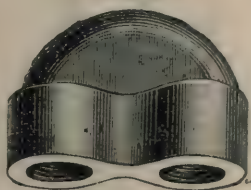
Extra Heavy Flanges For Flanged Fittings.

Fig. 72. Common Flanges.				Fig. 73. Blind Flanges.			Table For Drilling.			
SIZE. INCHES	OUT-SIDE DIAMETER. INCHES	PRICE.		SIZE. INCHES	PRICE.		SIZE INCHES	BOLT CIRCLE. INCHES.	NUMBER OF BOLTS.	SIZE OF BOLTS. INCHES.
		FACED EACH.	FACED AND DRILLED.		FACED EACH	FACED AND DRILLED.				
2	7	1.00	1.30	2	1.25	1.55	2	5½	4	1 x 2½
2½	7½	1.25	1.55	2½	1.50	1.80	2½	5¾	4	x 2½
3	8½	1.50	1.80	3	1.75	2.05	3	6½	8	x 3
3½	9	2.00	2.30	3½	2.30	2.60	3½	7	8	x 3
4	10	2.65	3.05	4	3.05	3.45	4	8	8	x 3½
4½	10½	3.00	3.45	4½	3.45	3.90	4½	8½	8	x 3½
5	11	3.25	3.75	5	3.80	4.30	5	9	8	x 3½
6	12	3.60	4.20	6	4.25	4.85	6	10	8	x 3½
7	13½	4.50	5.25	7	5.40	6.15	7	11½	12	x 3½
8	15	7.25	8.00	8	8.25	9.00	8	12½	12	x 4
9	16	8.50	9.25	9	10.00	10.75	9	13½	12	x 4
10	17½	9.50	10.25	10	11.25	12.00	10	15½	12	x 4½
12	20	12.00	14.00	12	14.25	16.00	12	17½	16	x 4½
14	22	19.00	21.00	14	22.00	24.00	14	19½	16	x 5

Cast Iron Fittings.

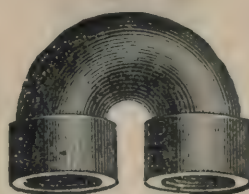
Return Bends.

Fig. 74.



Close Pattern.

Fig. 75.

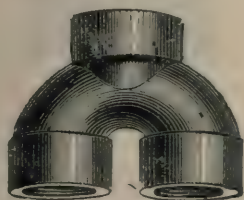


Open Pattern.

SIZE.	INCHES.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 74. Distance Centre to Centre, Inches.		$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{3}{4}$	$4\frac{1}{2}$
" 75. " " " "		$1\frac{7}{8}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$4\frac{1}{2}$	$5\frac{1}{2}$	$6\frac{1}{2}$
Fig. 74. Close Pattern.	Price Each.	15	22	34	45	75	1.50	2.25
" 75. Open "	" "	20	30	48	68	1.15	1.75	2.75
Fig. 74. Close. Right and Left. " "		17	25	40	52	86	1.75	2.60
" 75. Open. " " " "		25	35	58	80	1.35	2.00	3.20

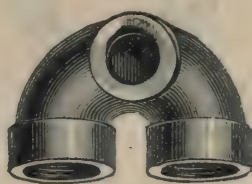
Return Bends and Y's.

Fig. 76.



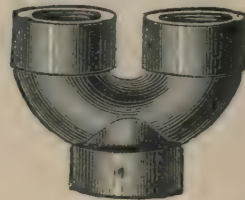
Back Outlet.

Fig. 77.



Side Outlet.

Fig. 78.



Y Branch.

SIZE.	INCHES		$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 76.	Return Bend, Back Outlet.		30	40	60	90	1.25	2.25	3.25
" 77.	"	Side	Made to Order. Prices on Application.						
" 78.	Y	"	30	40	60	90	1.25		
" 76.	Right and Left.		35	48	70	1.05	1.45	2.60	3.25
" 77.	"	"	Made to Order. Prices on Application.						
" 78.	"	"	35	48	70	1.05	1.45		

Close Return Bends for 3, 4, 5, 6 and 8 Feet Spread.

Close one inch Return Bends, for Coils longer than 8 feet, are tapped Straight.

Right and Left Return Bends, not kept in Stock, only made to order.

One inch Return Bends only kept in stock, other sizes made to order.

8 Feet Spread Return Bends not kept in stock.

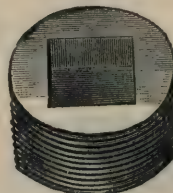
Cast Iron Fittings.

Fig. 79.



Common.

Fig. 80.



Countersunk.

Plugs.

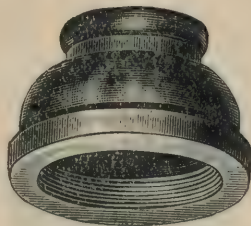
SIZE, INCHES.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Fig. 79, Plain, - Price each,	.03	.03	.04	.05	.06	.10	.13	.20	.35	.50	.75
" 79, Galv'd, " "	.05	.05	.06	.08	.10	.15	.23	.35	.57	.95	1.35
" 80, Countersunk, " "			.06	.07	.09	.11	.15	.22			

PLUGS.—Continued.

SIZE, INCHES.	4	$4\frac{1}{2}$	5	6	7	8	9	10	12	14	
Fig. 79, Plain, - Price each,	.85	1.35	1.75	2.40	3.75	5.50	6.50	7.50	10.00	25.00	
" 79, Galv'd, " "	1.60	2.35	3.45	4.65	7.50	11.00	13.00	15.00	20.00		

Reducing Couplings.

Fig. 81.



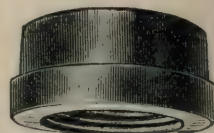
Locknuts.

Fig. 82.



Caps.

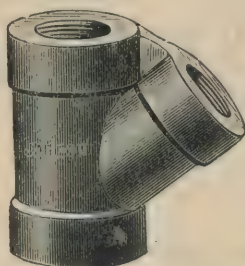
Fig. 83.



SIZE, INCHES.	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
Fig. 81, Price each -	.75	1.20	1.50	2.00	2.75	3.00	4.00	8.00	10.00	12.50	15.00	22.00
" 82, " " -	.40	.50	.70	.95	1.25	1.35	1.90	2.50	3.50	4.00	4.50	6.00
" 83, " " -	.50	.80	1.10	1.30	1.60	2.00	2.35	4.00	4.35	6.00	7.25	10.00

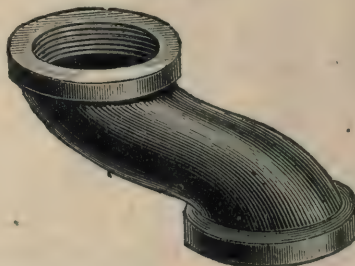
Lateral Branch Y's.

Fig. 84.



Offsets.

Fig. 85.



SIZE, INCHES.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	7	8
Fig. 84, Price each,	.25	.30	.40	.60	.90	1.25	2.25	3.25	4.50	6.00	9.00	11.00	17.00	25.00
" 85, to offset 4 in.		.45	.70	1.00	1.20	1.80	3.00	4.00	5.00	6.00	8.00	10.00		
" 85, " 6 in.		.67	1.05	1.50	1.80	2.70	4.50	6.00	7.50	9.00	12.00	15.00		
" 85, " 8 in.		.90	1.40	2.00	2.40	3.60	6.00	8.00	10.00	12.00	16.00	20.00		

Cast Iron Fittings.

Flange Unions.

Adjustable Flange Unions.

Lip Union.

Cast Iron. Malleable.

Fig. 86. Fig. 87.

Fig. 87½.

Fig. 88.

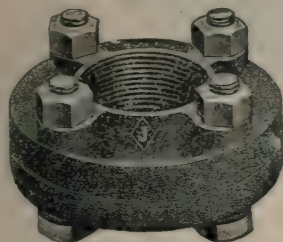


Fig. 86.—Cast Iron Flange Unions.

SIZE. INCHES.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Diameter, Inches.	$3\frac{1}{2}$	$3\frac{1}{2}$	.4	$4\frac{1}{4}$	5	$5\frac{1}{4}$	$5\frac{3}{4}$	$6\frac{3}{4}$	$7\frac{1}{2}$	8
Number of Bolts.	3	3	.3	3	4	4	4	4	4	4
Black, Price Each.	.60	.65	.70	.85	1.15	1.50	1.75	2.25	2.75	3.15
Galv'd, "	1.20	1.30	1.40	1.70	2.30	3.00	3.50	4.50	5.50	6.30

Cast Iron Flange Unions Continued.

SIZE. INCHES.	$4\frac{1}{2}$	5	6	7	8	9	10	12	14
Diameter, Inches.	$8\frac{1}{2}$	9	$10\frac{1}{4}$						
Number of Bolts.	4	5	6						
Black, Price Each.	4.50	5.00	6.50	8.00	10.00	12.50	15.00	22.00	45.00
Galv'd, "	9.00	10.00	13.00	16.00	20.00	25.00	30.00	44.00	90.00

Fig. 87.—Malleable Iron Flange Unions.

SIZE. INCHES.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Diameter, Inches.	3	$3\frac{3}{4}$	$3\frac{3}{4}$	$4\frac{1}{8}$	$4\frac{1}{2}$	$5\frac{1}{8}$	$5\frac{13}{16}$	$6\frac{3}{4}$	7	$7\frac{5}{8}$	$8\frac{3}{4}$	$9\frac{1}{4}$	$10\frac{1}{2}$
Number of Bolts.	4	4	4	4	4	4	4	4	4	5	5	6	6
Black, Price Each.	1.25	1.40	1.60	2.00	2.50	3.00	3.50	4.40	5.25	6.00	7.00	8.00	9.00
Galv'd, "	2.50	2.80	3.20	4.00	5.00	6.00	7.00	8.80	10.50	12.00	14.00	16.00	18.00

Fig. 87½.—Adjustable Flange Union. (Patent.)

SIZE. INCHES.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Black, Price Each.	1.25	1.40	1.60	2.00	2.50	3.00	3.50	4.40	5.25	6.00	7.00	8.00	9.00
Galv'd, "	2.50	2.80	3.20	4.00	5.00	6.00	7.00	8.80	10.50	12.00	14.00	16.00	18.00

Fig. 88.—Lip Union, Malleable Iron.

SIZE. INCHES.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Black, Price Each.	.15	.15	.18	.20	.28	.34	.46	.60	.80	1.50	2.10	3.00	4.00
Galv'd, "	.20	.20	.24	.27	.37	.50	.70	.90	1.20	2.25	2.90	4.50	5.60

Malleable Iron Union Elbows and Tees.

Fig. 89.



Female Sleeve.

Fig. 90.



Male Sleeve.

Union Elbows.

Description.	Fig. 89. Female Sleeve.							Fig. 90. Male Sleeve.						
SIZE, INCHES.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Black, Price Each	.28	.35	.45	.65	.80	1.25	2.50	.35	.43	.55	.70	1.00	1.50	3.00
Galv'd. " "	.40	.55	.65	1.00	1.20	1.85	3.75	.47	.63	.75	1.05	1.40	2.10	4.25

Fig. 91.



Female Sleeve.

Fig. 92.



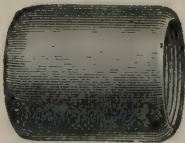
Male Sleeve.

Malleable Union Tees.

Description.	Fig. 91. Female Sleeve.							Fig. 92. Male Sleeve.						
SIZE, INCHES.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Black, Price Each	.28	.35	.45	.65	.80	1.25	2.50	.35	.43	.55	.70	1.00	1.50	3.00
Galv'd. " "	.40	.55	.65	1.00	1.20	1.85	3.75	.47	.63	.75	1.05	1.40	2.10	4.25

Couplings. Wrought Iron.

Fig. 93.



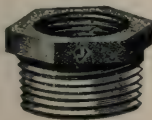
SIZE, INCHES.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Black, Price Each	.05	.06	.07	.10	.13	.17	.21	.28	.40	.60	.80
Galv'd. " "	.06	.08	.10	.13	.18	.25	.32	.40	.55	.80	1.05

Couplings. Wrought Iron—CONTINUED.

SIZE, INCHES	4	$4\frac{1}{2}$	5	6	7	8	9	10	12	14	15
Black, Price Each	1.00	1.50	1.65	2.40	3.25	4.25	5.50	7.50	10.00	13.00	
Galv'd. " "	1.40	2.00	2.25	3.25							

Bushings.

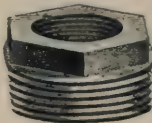
Fig. 94.



Malleable.

Reducing, one size.

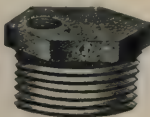
Fig. 95.



Cast Iron.

Reducing, one or more sizes.

Fig. 96.



Eccentric.

Reducing two or more sizes.

SIZE, INCHES.			$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 94.	Black.....	Price, each	.05	.06	.07	.09	.13	.17	.27	.42	.60	.80	1.00
" 94.	Galvanized.	" "	.06	.07	.10	.14	.21	.30	.44	.60	1.00	1.40	1.50
" 95.	Black.....	" "		.06	.07	.09	.13	.17	.27	.42	.60	.80	1.00
" 95.	Galvanized.	" "		.07	.10	.14	.21	.30	.44	.60	1.00	1.40	1.50
" 96.	Black.....	" "							.27	.42	.60	.80	1.00

Bushings—CONTINUED.

SIZE, INCHES.			$4\frac{1}{2}$	5	6	7	8	9	10	12	14
Fig. 94.	Black.....	Price, each	1.50	1.85							
" 94.	Galvan'd	" "	2.25	3.00							
" 95.	Black.....	" "	1.50	1.85	2.50	3.75	5.50	6.50	7.50	10.00	25.00
" 95.	Galvan'd	" "	2.25	3.00	4.00	6.00	8.00	9.00	12.00	15.00	
" 96.	Black.....	" "	1.50	1.85	2.50	3.75	5.50	6.50	7.50	10.00	25.00

Detailed List of Bushings Kept in Stock.

3/8 Inch 3/8 x 1/4	1 1/2 Inch 1 1/8 x 3/8 1 1/2 x 1/2 1 1/2 x 3/4 1 1/2 x 1 1 1/2 x 1 1/4	3 1/2 Inch 3 1/8 x 2 3 1/2 x 2 1/2 3 1/2 x 3	6 Inch 6 x 2 6 x 2 1/2 6 x 3 6 x 3 1/2 6 x 4 6 x 4 1/2 6 x 5	9 Inch 9 x 6 9 x 7 9 x 8
1/2 Inch 1/2 x 1/2 1/2 x 3/4	2 Inch 2 x 1/2 2 x 3/4 2 x 1 2 x 1 1/4 2 x 1 1/2	4 Inch 4 x 1 4 x 1 1/4 4 x 1 1/2 4 x 2 4 x 2 1/2 4 x 3 4 x 3 1/2	7 Inch 7 x 3 7 x 3 1/2 7 x 4 7 x 4 1/2 7 x 5 7 x 6	10 Inch 10 x 6 10 x 8
3/4 Inch 3/4 x 1/2 3/4 x 3/4 3/4 x 1 3/4 x 1 1/2	2 1/2 Inch 2 1/2 x 1 2 1/2 x 1 1/4 2 1/2 x 1 1/2 2 1/2 x 2	4 1/2 inch 4 1/2 x 2 4 1/2 x 2 1/2 4 1/2 x 3 4 1/2 x 4	8 Inch 8 x 3 8 x 4 8 x 5 8 x 6 8 x 7	12 Inch 12 x 6 12 x 8 12 x 10
1 Inch 1 x 1/2 1 x 3/4 1 x 1 1 x 1 1/2	3 Inch 3 x 1 3 x 1 1/4 3 x 1 1/2 3 x 2 3 x 2 1/2	5 Inch 5 x 2 5 x 2 1/2 5 x 3 5 x 3 1/2 5 x 4 5 x 4 1/2		

NOTE.—Bushings larger than 8 inch are not kept in stock, and are only made to order.

Nipples, Wrought Iron.

Fig. 97.

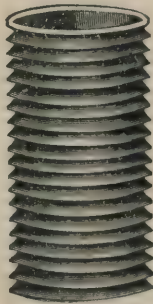


Fig. 98.

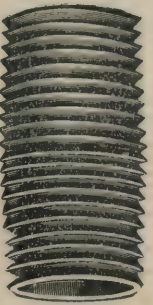


Fig. 99.

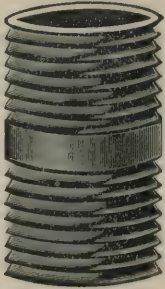
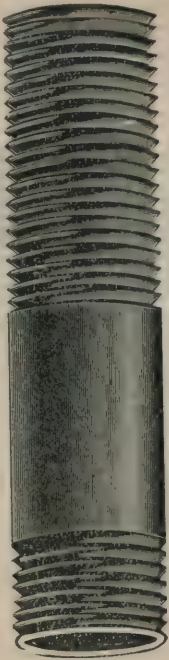


Fig. 100.



Running.

Close.

Shoulder.

Lock Nut Nipples not over 6 in. Long.

	SIZE, INCHES.												
	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Fig. 97-99. Running, Close & Shoulder, Short, Plain	.06	.06	.06	.07	.09	.11	.17	.20	.26	.55	.70	1.00	1.15
" " " " " Galv'zed	.08	.08	.08	.09	.12	.17	.25	.30	.40	.75	1.00	1.45	1.60
" 99. Shoulder, Long, Plain	.08	.08	.08	.10	.13	.17	.24	.29	.38	.75	1.00	1.35	1.55
" 99. " " Galvanized	.12	.12	.12	.14	.19	.26	.38	.47	.61	1.10	1.50	2.05	2.45
" 99. Right and Left, Short, Plain	.08	.08	.08	.10	.13	.17	.23	.28	.35	.75	1.00	1.30	1.50
" 99. " " Long	.11	.11	.11	.13	.17	.22	.31	.38	.48	1.00	1.30	1.70	2.00
" 100. Lock Nut Nipples, Plain	.18	.20	.22	.25	.30	.40	.50	.80	1.25	1.50			

Extra Long Nipples, Plain.

	SIZE, INCHES.												
	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
5 in. Long	.11	.11	.11	.14	.16	.21	.27	.34	.44	.87	1.15		
6 in. Long	.12	.12	.12	.16	.18	.24	.31	.39	.49	.98	1.30	1.52	1.75
7 in. Long	.14	.14	.14	.17	.20	.27	.35	.44	.55	1.10	1.43	1.70	1.95
8 in. Long	.15	.15	.15	.19	.22	.30	.38	.48	.61	1.20	1.57	1.85	2.15
9 in. Long	.16	.16	.16	.20	.24	.32	.42	.53	.67	1.30	1.70	2.05	2.35
10 in. Long	.17	.17	.17	.22	.26	.35	.46	.58	.72	1.40	1.85	2.25	2.55
11 in. Long	.19	.19	.19	.23	.28	.38	.49	.62	.78	1.50	2.00	2.40	2.75
12 in. Long	.20	.20	.20	.25	.30	.40	.53	.67	.84	1.50	2.00	2.40	2.75

Revised Price List of WROUGHT IRON NIPPLES.

Figures 97-100.

PLAIN RIGHT HAND.

LENGTH. INCHES.						Size. Inches.	PRICES.		PRICE OF EXTRA LONG NIPPLES.									
Close. Short.	Short.	Long.					Close or Short.	Long.	LENGTH. INCHES.									
						4			5	6	7	8	9	10	11	12		
3/4	1 1/2	2	2 1/2	3	3 1/2	1/8	03	04	05	06	06	07	08	08	09	10	10	
7/8	1 1/2	2	2 1/2	3	3 1/2	1/4	03	04	05	06	06	07	08	08	09	10	10	
1	1 1/2	2	2 1/2	3	3 1/2	3/8	03	04	05	06	06	07	08	08	09	10	10	
1 1/8	1 1/2	2	2 1/2	3	3 1/2	1/2	04	05	06	07	08	09	10	10	11	12	13	
1 3/8	2	2 1/2	3	3 1/2	4	3/4	05	07	....	08	09	10	11	12	13	14	15
1 1/2	2	2 1/2	3	3 1/2	4	1	06	09	...	11	12	14	15	16	18	19	20	
1 5/8	2 1/2	3	3 1/2	4	4 1/2	1 1/4	09	12	...	14	16	18	19	21	23	25	27	
1 3/4	2 1/2	3	3 1/2	4	4 1/2	1 1/2	10	15	....	17	20	22	24	27	29	31	34
2	2 1/2	3	3 1/2	4	4 1/2	2	13	19	....	22	25	28	31	34	36	39	42
2 1/2	3	3 1/2	4	4 1/2	5	2 1/2	28	38	....	....	44	49	55	60	65	70	75
2 3/2	3	3 1/2	4	4 1/2	5	3	35	50	....	....	58	65	72	79	85	93	1.00
2 3/4	4	4 1/2	5	5 1/2	6	3 1/2	50	68	...	...	....	76	85	93	1.03	1.13	1.20
3	4	4 1/2	5	5 1/2	6	4	58	78	....	....	....	88	98	1.08	1.18	1.28	1.38
3	4	4 1/2	5	5 1/2	6	4 1/2	88	1.18	...	....	....	1.33	1.48	1.63	1.78	1.93	2.08
3 1/2	4 1/2	5	5 1/2	6	6 1/2	5	1.05	1.40	....	....	....	1.50	1.68	1.85	2.03	2.20	2.38
3 1/2	4 1/2	5	5 1/2	6	6 1/2	6	1.33	1.75	....	....	....	1.88	2.10	2.33	2.55	2.78	3.00
4	5	....	....	....	....	7	1.88	....	....	....	2.13	2.45	2.75	3.05	3.35	3.65	3.95
4	5	....	....	....	....	8	2.25	....	....	....	2.63	2.93	3.30	3.65	4.00	4.38	4.75
....	....	....	....	....	....	9	3.25	....	....	....	....	3.70	4.15	4.60	5.05	5.50	5.95
....	....	....	....	....	....	10	4.00	....	....	....	....	4.68	5.35	6.03	6.70	7.38	8.05
....	....	....	....	....	....	12	6.00	....	....	....	....	6.75	7.50	8.25	9.00	9.75	10.50

WROUGHT IRON NIPPLES.

PLAIN RIGHT AND LEFT.

LENGTH. INCHES.						Size. Inches.	PRICES.		PRICE OF EXTRA LONG NIPPLES.									
Close.	Short.	Long.					Close or Short.	Long.	LENGTH. INCHES.									
		4	5	6	7	8			9	10	11	12						
3/4	1 1/2	2	2 1/2	3	3 1/2	1/8	04	06	07	07	08	09	10	11	11	12	13	
7/8	1 1/2	2	2 1/2	3	3 1/2	1/4	04	06	07	07	08	09	10	11	11	12	13	
1	1 1/2	2	2 1/2	3	3 1/2	3/8	04	06	07	07	08	09	10	11	11	12	13	
1 1/8	1 1/2	2	2 1/2	3	3 1/2	1/2	05	07	08	09	10	10	11	12	13	14	15	
1 3/8	2	2 1/2	3	3 1/2	4	3/4	07	09	....	10	11	12	13	14	15	16	17
1 1/2	2	2 1/2	3	3 1/2	4	1	09	11	....	13	14	16	17	19	21	22	24
1 5/8	2 1/2	3	3 1/2	4	4 1/2	1 1/4	12	16	....	17	18	20	22	24	26	28	30
1 3/4	2 1/2	3	3 1/2	4	4 1/2	1 1/2	14	19	....	21	23	26	28	30	33	35	38
2	2 1/2	3	3 1/2	4	4 1/2	2	18	24	....	26	30	33	36	40	43	47	50
2 1/2	3	3 1/2	4	4 1/2	5	2 1/2	38	50	....	....	55	60	65	70	75	80	85
2 1/2	3	3 1/2	4	4 1/2	5	3	50	65	....	....	73	79	85	92	98	1.05	1.13
2 3/4	4	4 1/2	5	5 1/2	6	3 1/2	65	85	....	....	....	93	1.00	1.08	1.15	1.23	1.30
3	4	4 1/2	5	5 1/2	6	4	75	1.00	....	....	....	1.05	1.15	1.25	1.35	1.45	1.55

Revised Price List of GALVANIZED NIPPLES. Figures 97-100.

PLAIN.

LENGTH. INCHES.						Size. Inches	PRICES.		PRICE OF EXTRA LONG NIPPLES.									
Close.	Short.	Long.					Close or Short.	Long.	LENGTH. INCHES.									
									4	5	6	7	8	9	10	11	12	
$\frac{3}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{8}$	04	06	08	09	10	11	12	13	14	16	17	
$\frac{7}{8}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{4}$	04	06	08	09	10	11	12	13	14	16	17	
1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{3}{8}$	04	06	08	09	10	11	12	13	14	16	17	
$1\frac{1}{8}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{2}$	05	07	09	10	12	13	14	16	17	19	20	
$1\frac{3}{8}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$\frac{3}{4}$	06	10	....	12	13	15	16	18	20	21	23
$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	1	09	13	....	16	18	21	23	25	28	30	32
$1\frac{5}{8}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$1\frac{1}{4}$	13	19	....	21	24	27	30	33	37	40	43
$1\frac{3}{4}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$1\frac{1}{2}$	15	24	....	26	30	34	38	42	46	50	54
2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	2	20	31	....	34	40	45	50	55	61	66	71
$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	$2\frac{1}{2}$	38	55	....	....	65	75	85	95	1.05	1.15	1.25
$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	3	50	75	....	....	85	98	1.08	1.20	1.30	1.43	1.60
$2\frac{3}{4}$	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$3\frac{1}{2}$	73	1.03	....	....	....	1.18	1.33	1.48	1.63	1.78	1.93
3	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	4	80	1.23	....	....	....	1.40	1.58	1.75	1.93	2.10	2.28
3	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$4\frac{1}{2}$	1.25	1.80	....	....	....	2.05	2.25	2.45	2.65	2.85	3.05
$3\frac{1}{2}$	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	5	1.75	2.20	....	....	....	2.38	2.68	2.98	3.28	3.58	3.88
$3\frac{1}{2}$	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	6	2.00	2.75	....	....	....	2.93	3.28	3.63	3.98	4.33	4.68
4	5	....	....	....	....	7	3.00	....	....	....	3.50	3.95	4.45	4.95	5.45	5.95	6.45
4	5	....	....	....	....	8	3.50	....	....	....	4.20	4.83	5.45	6.08	6.70	7.33	7.95

GALVANIZED NIPPLES.

RIGHT AND LEFT.

LENGTH. INCHES.						Size. Inches.	PRICES.		PRICE OF EXTRA LONG NIPPLES.									
Close.	Short.	Long.					Close or Short.	Long.	LENGTH. INCHES.									
									4	5	6	7	8	9	10	11	12	
$\frac{3}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{8}$	07	10	11	11	13	15	16	18	18	19	21	
$\frac{7}{8}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{4}$	07	10	11	11	13	15	16	18	18	19	21	
1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{3}{8}$	07	10	11	11	13	15	16	18	18	19	21	
$1\frac{1}{8}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{2}$	08	11	13	15	16	16	18	19	21	23	24	
$1\frac{3}{8}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$\frac{3}{4}$	11	15	....	16	18	19	21	23	24	26	27
$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	1	15	18	....	22	23	26	27	31	34	35	39
$1\frac{5}{8}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$1\frac{1}{4}$	19	26	....	27	29	32	35	39	42	45	48
$1\frac{3}{4}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$1\frac{1}{2}$	23	31	....	34	37	42	45	48	53	56	61
2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	2	29	39	....	42	48	53	58	64	69	75	80
$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	$2\frac{1}{2}$	61	80	....	....	88	96	1.04	1.12	1.20	1.28	1.36
$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	3	80	1.04	....	....	1.17	1.27	1.36	1.47	1.57	1.68	1.81
$2\frac{3}{4}$	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$3\frac{1}{2}$	1.04	1.36	....	....	....	1.49	1.60	1.73	1.84	1.97	2.08
3	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	4	1.20	1.60	....	....	....	1.68	1.84	2.00	2.16	2.32	2.48

Extra Long Nipples, Galvanized.

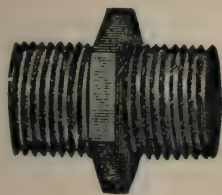
SIZE, INCHES	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
5 Inches Long .	17	17	20	23	31	42	52	68							
6 " " .	19	19	23	26	36	48	60	80	1.30	1.70					
7 " " .	22	22	26	29	41	54	68	90	1.50	1.95	2.35	2.80	4.10	4.75	5.85
8 " " .	24	24	28	32	46	60	76	1.00	1.70	2.15	2.65	3.15	4.50	5.35	6.55
9 " " .	26	26	31	35	50	66	84	1.10	1.90	2.40	2.95	3.50	4.90	5.95	7.25
10 " " .	28	28	34	39	55	73	91	1.22	2.10	2.60	3.25	3.85	5.30	6.55	7.95
11 " " .	31	31	37	42	60	79	99	1.32	2.30	2.85	3.55	4.20	5.70	7.15	8.65
12 " " .	33	33	40	46	64	85	1.07	1.42	2.50	3.20	3.85	4.55	6.10	7.75	9.35

Extra Long Nipples, Right and Left, Plain.

SIZE, INCHES.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
5 Inches Long .	14	14	17	19	25	33	41	52							
6 " " .	16	16	19	21	28	36	46	59	1.10	1.45					
7 " " .	18	18	20	23	31	40	51	66	1.20	1.57	1.85	2.10			
8 " " .	19	19	22	25	34	44	56	72	1.30	1.70	2.00	2.30			
9 " " .	21	21	24	27	38	48	60	79	1.40	1.83	2.15	2.50			
10 " " .	22	22	25	30	41	52	65	86	1.50	1.96	2.30	2.70			
11 " " .	24	24	27	32	44	55	70	93	1.60	2.10	2.45	2.90			
12 " " .	25	25	29	34	47	59	75	1.00	1.70	2.25	2.60	3.10			

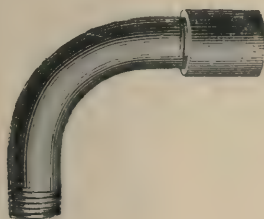
**Radiator Nipples
Right & Left
Malleable**

Fig. 101



**Pipe Bends
Wrot Iron**

Fig. 102



**Gas Pipe Hooks
Wrot Iron**

Fig. 103



Size, Inches.....

Fig. 101. Radiator Nipples, Right and Left.....Price each
" 102. $\frac{1}{4}$ pipe Bends, Wrought Iron " "

	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 101. Radiator Nipples, Right and Left.....Price each	.25	.30	.40	.50	.70
" 102. $\frac{1}{4}$ pipe Bends, Wrought Iron " "	.37	.56	.77	1.12	1.65

Gas Pipe Hooks, Wrot Iron.

Size, Inches

Fig. 103. Price per 100.....

	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 103. Price per 100.....	.80	1.00	1.40	1.80	2.25	4.75	5.00	7.00

Pipe Straps.

Tinned Wrot Iron

Fig. 104

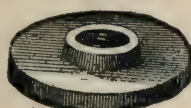


Size, Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price per lb.....	.30	.30	.30	.30	.30	.30	.30	.30

Cast Iron Flanges.

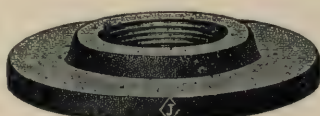
Fig. 107

Fig. 105

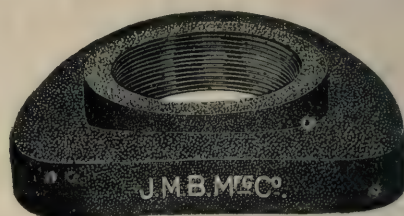


Regular

Fig. 106



Extra Heavy



Curved or Saddle Flange

[illegible]

Fig. 106. Extra Heavy Cast Iron Flanges, Faced.

Size of Pipe, inches.....	3	4	5	6	8	10	12
Diameter of Flange, inches.....	7	9	10	11	14	16	18
Thickness of Flange, inches.....	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$
Price, each.....	.45	.65	.85	1.10	1.60	2.75	3.50

Fig. 107. Circular or Saddle Flanges, Cast Iron.

Size of Pipe, inches.....	1½	2	2½	3	4	5	6	7	8
Diameter of Flanges, inches.....	6	7	8	9	9	11	12	13	14
Price, each.....	1.04	1.50	1.80	2.44	2.80	4.80	6.40	8.20	9.00

Circular or Saddle Flanges are only made to order. In ordering, give the circle they are to fit.

Revised Price List of CAST IRON FLANGES, Regular Fig. 105.

Size of Pipe.....	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8	9	10	12
3.....	Each	10	10	15	16	22	35	40	50	65	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
3 1/2.....	"	15	15	22	25	30	35	40	50	65	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
4.....	"	22	22	25	30	35	40	42	50	65	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
4 1/2.....	"	25	25	30	35	40	42	42	50	65	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
5.....	"	35	35	45	45	50	50	50	50	65	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
5 1/2.....	"	45	45	50	50	55	55	55	55	65	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
6.....	"	50	50	60	60	70	70	70	70	75	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
6 1/2.....	"	65	65	75	75	85	85	85	85	85	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
7.....	"	75	75	90	90	95	95	95	95	95	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
7 1/2.....	"	90	90	1.00	1.00	1.10	1.10	1.10	1.10	1.10	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
8.....	"	1.00	1.00	1.25	1.25	1.35	1.35	1.35	1.35	1.35	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
8 1/2.....	"	1.25	1.25	1.35	1.35	1.50	1.50	1.50	1.50	1.50	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
9.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
9 1/2.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
10.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
11.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
12.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
13.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
14.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
15.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
16.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
17.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
18.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
19.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....
20.....	"	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	1.00	1.40	1.75	2.20	2.80	3.75	4.00	.....

DIAMETER OF FLANGES, INCHES.

Revised Price List of BRANCH TEES, BACK AND END FEED.

FOR 1 in. PIPE—1½, 2 and 2½ in. RUN.

NO. OF BRANCHES.	2	3	4	5	6	7	8	9	10	11	12
1½ in. Run, each,	1.00	1.15	1.30	1.45	1.75	2.20	2.45	2.90	3.30	4.50	4.75
2 in. " "	1.15	1.35	1.60	1.85	2.10	2.45	2.75	3.40	4.00	4.80	5.10
2½ in. " "	1.75	2.05	2.40	2.75	3.10	3.50	3.75	4.30	5.00	5.50	5.85

FOR 1¼ in. PIPE—2 and 2½ in. RUN.

NO. OF BRANCHES.	2	3	4	5	6	7	8	9	10	11	12
2 in. Run, each,	1.50	1.90	2.40	2.90	3.30	3.90	4.50	5.25	5.85	6.25	6.50
2½ in. " "	1.95	2.40	2.85	3.55	3.95	4.20	4.95	6.15	6.85	7.25	7.65

FOR 1½ in. PIPE—2½ and 3 in. RUN.

NO. OF BRANCHES.	2	3	4	5	6	7	8	9	10	11	12
2½ in. Run, each,	2.85	3.45	4.15	5.00	5.75	6.50	7.00	8.25	9.25	9.75	10.50
3 in. " "	3.15	3.80	4.60	5.50	6.25	7.25	7.75	9.00	10.00	10.75	11.50

FOR 2 in. PIPE—2½, 3 and 3½ in. RUN.

NO. OF BRANCHES.	2	3	4	5	6	7	8	9	10	11	12
2½ in. Run, each,	4.50	5.75	7.00	8.50	9.75	11.75	12.75	13.50	15.00	15.75	16.50
3 in. " "	4.50	5.75	7.00	8.50	9.75	11.75	12.75	13.50	15.00	15.75	16.50
3½ in. " "	5.00	6.25	7.75	9.25	10.75	13.00	14.00	15.00	16.50	.....	.....

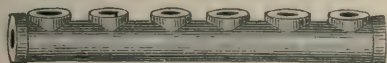
HOOK, RING and EXPANSION PLATES.

NO. OF BRANCHES.	1	2	3	4	5	6	7	8	9	10	11	12
1 in. Hook Plate, .....each,	09	18	23	26	32	38	48	59	65	70	85	1.00
1¼ in. " " " " " " " " " " " "	10	21	27	32	41	52	68	80	90	1.20	1.35	1.40
1½ in. " " " " " " " " " " " "	15	28	43	58	72	88	1.10	1.25	1.40	1.55	1.65	1.90
2 in. " " " " " " " " " " " "	22	43	65	90	1.15	1.35	.....	1.00	1.20	1.30	.....	.....
1 in. Ring " " " " " " " " " " " "	16	28	41	50	62	72	96	1.00	1.20	1.30	.....	.....
1¼ in. " " " " " " " " " " " "	21	35	50	62	75	1.10	1.25	1.40	.....	.....	.....	.....
1 in. Expansion Plate, " "	15	25	35	50	60	70	80	95	1.10	1.35	1.55	1.70
1¼ in. " " " " " " " " " " " "	17	27	40	60	70	80	90	1.15	1.30	1.50	1.70	2.00
1½ in. " " " " " " " " " " " "	25	40	60	75	90	1.00	.....	.....	.....	.....	.....	.....

Branch Tees, or Headers.

Small Run, $1\frac{3}{4}$ inches Inside Diameter ; $2\frac{1}{2}$ inches, Centre to Centre, for 1-inch Pipe.

Fig. 108.



Small Run, End Feed.

Fig. 109.



Small Run, Back Feed.

No. of Branches for 1-inch Pipe							2	3	4	5	6	7	8	9
Fig. 108. End Inlet for 1-inch Pipe, Price each,							.85	.95	1.00	1.10	1.30	1.55	1.80	2.05
" 109. Back " " " " " "							.85	.95	1.00	1.10	1.30	1.55	1.80	2.05
" 108. End " " $1\frac{1}{4}$ -inch " " "							1.10	1.20	1.25	1.35	1.55	1.80	2.05	2.30
" 109. Back " " " " " "							1.10	1.20	1.25	1.35	1.55	1.80	2.05	2.30

Branch Tees for Box Coils are always tapped left in Branches and right hand in Back or End Inlets, unless otherwise ordered.

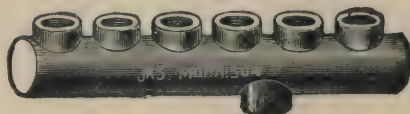
Large Run, $2\frac{1}{2}$ inches Inside Diameter ; $2\frac{1}{2}$ inches, Centre to Centre, for 1-inch Pipe.

Fig 110.



Large Run, End Feed.

Fig. 111.



Large Run, Back Feed.

No. of Branches for 1-inch Pipe							2	3	4	5	6	7	8	9	10	11	12
Fig. 110. End Inlet for 1-in. Pipe, price each							.90	1.00	1.20	1.40	1.70	2.15	2.40	2.80	3.30	4.20	4.75
" " " " $1\frac{1}{4}$ -in. " " "							1.15	1.25	1.45	1.65	1.95	2.40	2.65	3.05	3.55	4.45	5.00
" " " " $1\frac{1}{2}$ -in. " " "							1.30	1.40	1.60	1.80	2.10	2.55	2.80	3.20	3.70	4.60	5.15
" " " " 2-in. " " "							1.55	1.65	1.85	2.05	2.35	2.80	3.05	3.45	3.95	4.85	5.40
Fig. 111. Back " " 1-in. " " "							.90	1.00	1.20	1.40	1.70	2.15	2.40	2.80	3.30	4.20	4.75
" " " " $1\frac{1}{4}$ -in. " " "							1.15	1.25	1.45	1.65	1.95	2.40	2.65	3.05	3.55	4.45	5.00
" " " " $1\frac{1}{2}$ -in. " " "							1.30	1.40	1.60	1.80	2.10	2.55	2.80	3.20	3.70	4.60	5.15
" " " " 2-in. " " "							1.55	1.65	1.85	2.05	2.35	2.80	3.05	3.45	3.95	4.85	5.40

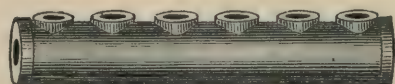
Large Run, $2\frac{1}{2}$ inches Inside Diameter ; 3 inches, Centre to Centre, for $1\frac{1}{4}$ -inch Pipe.

No. of Branches for $1\frac{1}{4}$ -inch Pipe							3	4	5	6	7	8	9	10
Fig. 110. End Inlet for $1\frac{1}{4}$ -inch Pipe, price each							1.55	1.90	2.30	2.80	3.30	3.80	4.40	5.00
" " " " $1\frac{1}{2}$ -inch " " "							1.80	2.15	2.55	3.05	3.55	4.05	4.60	5.25
" " " " 2-inch " " "							1.95	2.30	2.70	3.20	3.70	4.20	4.80	5.40
" " " " $2\frac{1}{2}$ -inch " " "							2.20	2.55	2.95	3.45	3.95	4.45	5.00	5.65
Fig. 111. Back " " $1\frac{1}{4}$ -inch " " "							1.55	1.90	2.30	2.80	3.30	3.80	4.40	5.00
" " " " $1\frac{1}{2}$ -inch " " "							1.80	2.15	2.55	3.05	3.55	4.05	4.60	5.25
" " " " 2-inch " " "							1.95	2.30	2.70	3.20	3.70	4.20	4.80	5.40
" " " " $2\frac{1}{2}$ -inch " " "							2.20	2.55	2.95	3.45	3.95	4.45	5.00	5.65

Branch Tees or Headers.

**Large Run 3 inches Inside Diameter ; 3½ inches, Centre to Centre,
for 1½ inch Pipe.**

Fig. 112.



End Feed.

Fig. 113.



Back Feed.

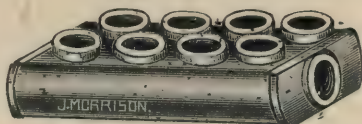
No. of Branches for 1½-inch Pipe.		3	4	5	6	7	8	10
Fig. 112. End Inlet for 1½ in. Pipe, Price Each		3.00	3.75	4.50	5.30	6.20	6.80	9.10
" " " 2 " "		3.25	4.00	4.75	5.55	6.45	7.05	9.35
" " " 2½ " "		3.40	4.15	4.90	5.70	6.60	7.20	9.50
" " " 3 " "		3.75	4.50	5.25	6.05	6.95	7.55	9.85
Fig. 113. Back Inlet for 1½ in. Pipe, Price Each		3.00	3.75	4.50	5.30	6.20	6.80	9.10
" " " 2 " "		3.25	4.00	4.75	5.55	6.45	7.05	9.35
" " " 2½ " "		3.40	4.15	4.90	5.70	6.60	7.20	9.50
" " " 3 " "		3.75	4.50	5.25	6.05	6.95	7.55	9.85

Large Run 3½ in. Inside Diameter ; 4½ in., Centre to Centre, for 2 in. Pipe.

No. of Branches for 2-inch Pipe.		3	4	5	6	7	8	10
Fig. 112. End Inlet for 2 in. Pipe, Price Each		4.20	5.30	6.40	7.55	9.10	10.10	12.35
" " " 2½ " "		4.45	5.55	6.65	7.80	9.35	10.35	12.60
" " " 3 " "		4.60	5.70	6.80	7.95	9.50	10.50	12.75
" " " 3½ " "		4.95	6.05	7.15	8.30	9.85	10.85	13.10
Fig. 113. Back Inlet for 2 in. Pipe, Price Each		4.20	5.30	6.40	7.55	9.10	10.10	12.35
" " " 2½ " "		4.45	5.55	6.65	7.80	9.35	10.35	12.60
" " " 3 " "		4.60	5.70	6.80	7.95	9.50	10.50	12.75
" " " 3½ " "		4.95	6.05	7.15	8.30	9.85	10.85	13.10

Cluster Headers or Branch Tees.

Fig. 114.



8 Branch, End Inlet.

Fig. 115.



8 Branch, Back Inlet.

No. of Branches for 1-inch Pipe.		4	6	8	10	12	14	16
Fig. 114. End Inlet for 1 in. Pipe, Price Each		1.00	1.50	2.00	2.40	2.80	3.20	3.60
" " " 1¼ " "		1.25	1.75	2.25	2.65	3.05	3.45	3.85
" " " 1½ " "		1.40	1.90	2.35	2.80	3.20	3.60	4.00
" " " 2 " "		1.65	2.15	2.60	3.05	3.45	3.85	4.25
Fig. 115. Back Inlet for 1 in. Pipe, Price Each		1.00	1.50	2.00	2.40	2.80	3.20	3.60
" " " 1¼ " "		1.25	1.75	2.25	2.65	3.05	3.45	3.85
" " " 1½ " "		1.40	1.90	2.35	2.80	3.20	3.60	4.00
" " " 2 " "		1.65	2.15	2.60	3.05	3.45	3.85	4.25
Hook Plates 2 Pipes wide to suit Cluster Headers		.60	.70	.80	.90	1.00	1.10	1.20

Large Manifolds, or Branch Tees.

3 INCH RUN—FOR DRY KILNS OR HEATING APPARATUS—SCREWED ENDS.



Fig. 116.

NUMBER OF BRANCHES.		3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	22	24
1 inch Branch 2½ inch Centre to Centre	{ Length in feet and in.	.84	1.04	1.14	1.34	1.64	1.84	1.11½	2.14	2.44	2.64	2.94	2.11½	3.24	3.44	3.94	4.24	4.74	5.04
	{ Price, each.....	3.00	3.60	4.20	4.85	5.50	6.20	7.85	8.40	9.00	9.70	10.85	11.00	11.75	12.50	15.75	17.00	18.50	21.00
1 inch Branch 3 inch Centre to Centre	{ Length in feet and in.	.94	1.04	1.34	1.64	1.94	2.04	2.34	2.64	2.94	3.04	3.34	3.64	3.94	4.04	4.64	5.04	.....	.....
	{ Price, each.....	3.25	4.00	4.75	5.50	6.25	8.25	9.00	9.70	10.85	11.25	12.25	13.50	15.50	16.75	18.00	20.50	.....	.....
1 inch Branch 3½ inch Centre to Centre	{ Length in feet and in.	1.04	1.14	1.54	1.84	2.04	2.34	2.74	2.104	3.24	3.54	3.94	4.04	4.44	4.74	5.24	.....	.....	.....
	{ Price, each.....	3.50	4.25	5.00	6.00	7.50	8.75	9.75	10.75	11.75	13.00	15.75	16.50	17.75	18.50	20.00	.....	.....	.....
1 inch Branch 4 inch Centre to Centre	{ Length in feet and in.	1.14	1.34	1.74	1.114	2.34	2.74	2.114	3.34	3.74	3.114	4.34	4.74	4.114	.....	.....	.....	.....	.....
	{ Price, each.....	3.60	4.75	5.50	7.50	8.75	10.00	11.25	12.50	15.50	16.25	17.25	18.25	19.50	.....	.....	.....	.....	.....

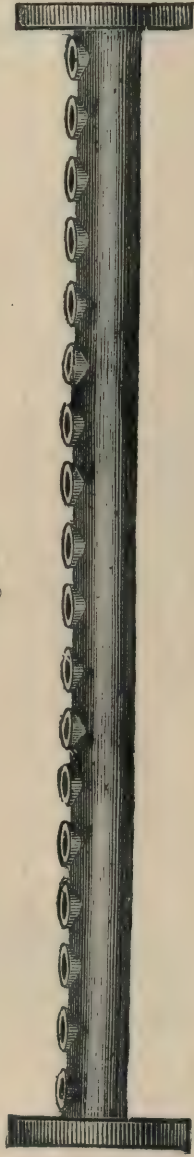
NOTE.—The Run is Tapped 3 inches or smaller.

In ordering, state size of Pipe for which Run is to be Tapped. Both ends will be Tapped the same size unless otherwise ordered.

Large Manifolds, or Branch Tees.

3 INCH RUN—FOR DRY KILNS OR HEATING APPARATUS—FLANGED ENDS.

Fig. 117.



NUMBER OF BRANCHES.		10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
1 inch Branch 2½ in. Cent. to Cent.	{ Length ft. & in.	.....	.....	.....	.....	.....	.....	.....	5.04	5.54	5.104	6.83	6.83	7.13	7.63	7.113	8.43	8.93	9.23	9.73	10.03
	{ Price, each.	.....	.....	.....	.....	.....	.....	.....	24.50	25.75	27.00	28.25	29.50	30.75	32.25	33.75	35.25	36.75	38.25	39.75	41.25
1 inch Branch 3 in. Cent. to Cent.	{ Length ft. & in.	.....	.....	.....	.....	.....	5.04	5.64	6.04	6.64	7.04	7.64	8.04	8.64	9.04	9.64	10.04	.....	.....	.....	.....
	{ Price, each.	.....	.....	.....	.....	.....	24.25	25.75	27.25	28.75	30.25	31.75	33.50	35.25	37.00	38.75	40.50	.....	.....	.....	.....
1 inch Branch 3½ in. Cent. to Cent.	{ Length ft. & in.	.....	.....	.....	4.9	5.4	5.11	6.6	7.1	7.8	8.3	8.10	9.5	10.0	.....	.....	.....	.....	.....	.....	.....
	{ Price, each.	.....	.....	.....	23.25	24.75	26.25	28.00	29.75	31.50	33.25	35.00	37.00	39.00	.....	.....	.....	.....	.....	.....	.....
1 inch Branch 4 in. Cent. to Cent.	{ Length ft. & in.	.....	.....	.....	5.4	6.0	6.8	7.4	8.0	8.8	9.4	10.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
	{ Price, each.	.....	.....	.....	24.25	26.00	27.75	29.50	31.50	33.50	35.50	37.50	.....	.....	.....	.....	.....	.....	.....	.....	.....
1 inch Branch 5 in. Cent. to Cent.	{ Length ft. & in.	.....	5.0	5.10	6.8	7.6	8.4	9.2	10.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	{ Price, each.	.....	23.00	25.00	27.25	29.50	31.75	34.00	36.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1 inch Branch 6 in. Cent. to Cent.	{ Length ft. & in.	5.0	6.0	7.0	8.0	9.0	10.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	{ Price, each.	22.75	25.25	27.75	30.25	32.75	35.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

NOTE.—For lengths of Intermediate Branch Tees, add the distance centre to centre to the next lowest number of branches, the sum will be the length required. For prices, add half the difference between the next highest and the next lowest, and the sum will be the price required.

In ordering, state size of Pipe for which the Flanges are to be Tapped, also whether both Flanges are to be Tapped.

Coil Slat.

Fig. 118.

**Coil Stand.**

Fig. 119.

**Ornamental
Coil Stand.**

Fig. 120.

**Ornamental
Wall Bracket.**

Fig. 121.

**Coil Slats.**

Fig. 118.

Number of Pipes Wide.	2	3	4	5	6	7	8	9	10
Price Each	04	05	06	08	10	12	14	15	16

Coil Stands.

Fig. 119.

Number of Pipes High.	2	4	6	8	10	12	14
For 1 in. Pipe 5 in. Centre to Centre, Price per pair.		.60	.75	1.30	1.60	2.05	2.50
" 1 1/4 " 6 3/4 " " " "	57	76	1.21	1.71	2.10	2.55	.....
" 1 1/2 " 7 1/2 " " " "	85	1.11	1.36	1.76	2.21	2.62	.....
" 2 " 9 1/4 " " " "	1.80	2.25	2.70	3.15	3.65	4.05	.....

Ornamental Coil Stands.

Fig. 120.

Number of Pipes High.	4	6	8	10	12
Heavy Pattern, 2 to 5 Pipes Wide, Price per Set.	1.40	1.50	1.70	2.00	2.25
" " 6 to 10 " " " "	1.65	1.75	2.00	2.30	2.50
Light Pattern, 2 " " " " " "	.75	.90	1.20	1.55	2.00

Ornamental Wall Bracket.

Fig. 121.

Number of Pipes High.	6	8	10	12
One Pipe Wide, Price per Pair.....	.90	1.00	1.25	1.40
Two " " " " " "	1.30	1.50	1.80	2.25

Hook, Ring, and Expansion Plates.

6 Branch Hook Plate.

Fig. 123.



6 Branch Ring Plate.

Fig. 125.



6 Branch Exp. Plate.

Fig. 127.

Single
Hook Plate

Fig. 122.

Single
Ring Plate.

Fig. 124.

Single
Exp. Plate.

Fig. 126.



Single Hook, Ring, and Expansion Plates, Figs. 122, 124, 126.

Size of Pipe, Inches.		1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Fig. 122.	Single Hook Plate, price, each,	.09	.10	.20	.30	.45	.60
" 124.	" Ring " " "	.15	.20	.30	.40	.55	.75
" 126.	" Exp. " " "	.15	.20	.30	.40	.55	.75

Hook Plates, Fig. 123.

Number of Branches.		2	3	4	5	6	7	8
For 1-in. Pipe, 2 $\frac{1}{2}$	Centre to Centre, price, each	.15	.21	.27	.32	.40	.48	.56
" 1 $\frac{1}{4}$ -in. " 3	" " " " "	.20	.30	.40	.50	.65	.75	.80
" 1 $\frac{1}{2}$ -in. " 3 $\frac{1}{2}$	" " " " "	.40	.60	.80	1.00	1.20	1.40	1.60
" 2-in. " 4 $\frac{1}{2}$	" " " " "	.50	.75	1.00	1.25	1.50		

Ring Plates, Fig. 125.

Number of Branches.		2	3	4	5	6	7	8
For 1-in. Pipe, 2 $\frac{1}{2}$	Centre to Centre, price, each	.25	.35	.45	.55	.65	.75	.85

Expansion Plates, Fig. 127.

Number of Branches.		2	3	4	5	6	7	8
For 1-in. Pipe, 2 $\frac{1}{2}$	Centre to Centre, price, each	.20	.27	.38	.45	.55	.65	.75
" 1 $\frac{1}{4}$ -in. " 3	" " " " "	.30	.38	.50	.65	.75	.90	1.05

Rosette Plates.

Fig. 128.



For One Pipe Wide.

Fig. 129.



For Two Pipes Wide.

NUMBER OF PIPES HIGH.	2	4	6	8	10	12
Fig. 128. $2\frac{1}{2}$ in. Centre to Centre One Pipe Wide, Price Ea.	.40	.60	.88	1.20	1.40	1.70
" 129. $2\frac{1}{2}$ in. " " Two " "	.60	.90	1.32	1.80	2.10	2.55

Expansion Pipe Ring Hangers.

Fig. 130.



Plates.

Fig. 131.



Rings.

SIZE OF PIPE, INCHES.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Size of Pipe the Rings are Tapped for	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Figs. 130 and 131, Prices Complete	.22	.25	.30	.38	.44	.55	.65	.90	1.15	1.40	1.50	2.25

Ceiling Plates.

Fig. 132.



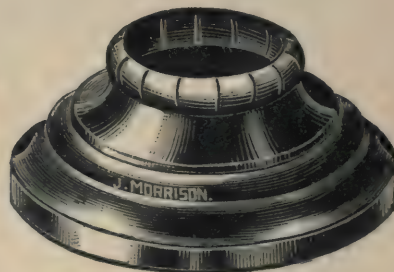
Cast Iron, 2 Pieces.

Fig. 133.



Cast Iron.

Fig. 134.



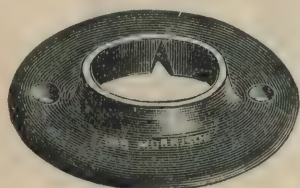
Spun Brass.

SIZE OF PIPE, INCHES.	PLAIN.					NICKLE PLATED.				
	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 132, 2 Pieces C. I., Price Each	.16	.18	.20	.25	.30	.20	.22	.25	.30	.38
" 133, 1 " " " "	.16	.18	.20	.25	.30	.20	.22	.25	.30	.38
" 134, 1 " Spun Brass "	.16	.18	.20	.25	.30	.20	.22	.25	.30	.38

Floor Plates.

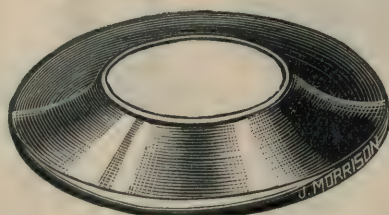
Cast Iron or Brass.

Fig. 135.



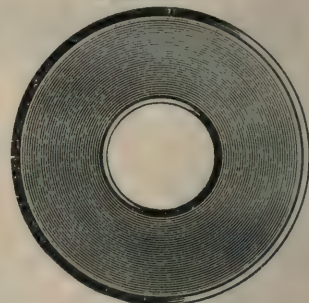
Spun Brass.

Fig. 136.



Cast Iron or Brass.

Fig. 137.



Size of Pipe, Inches.				$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 135,	Cast Iron,	Plain,	price, each	.06	.08	.10	.15	.18	.23	.30	.40
" 135,	"	N. Plated,	"	.10	.14	.15	.20	.25	.30	.....	.....
" 135,	"	Brass, Polished,	"	.....	.16	.20	.25	.28	.30	.....	.....
" 135,	"	N. Plated,	"	.....	.20	.25	.30	.35	.40	.....	.....
" 136,	Spun Brass,	Polished,	"	.....	.14	.18	.24	.32	.40	.....	.....
" 136,	"	N. Plated,	"	.....	.14	.18	.24	.32	.40	.....	.....
" 137,	Cast Iron,	Plain,	"	.06	.08	.10	.15	.18	.23	.30	.40
" 137,	"	N. Plated,	"	.10	.14	.15	.20	.25	.30	.....	.....
" 137,	Cast Brass,	Polished,	"	.....	.16	.20	.25	.28	.30	.....	.....
" 137,	"	N. Plated,	"	.....	.20	.25	.30	.35	.40	.....	.....

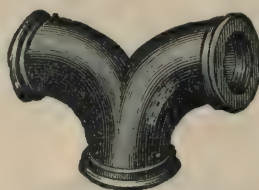
Cast Iron Fittings for Water Connections.

Fig. 138.



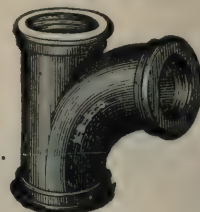
No. 1.

Fig. 139.



No. 2.

Fig. 140.



No. 3.

Size of Pipe, Inches.		1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 138,	No. 1, Elbows, price each, -	.25	.35	.45	.60	1.00	1.50	2.00	2.50
" 139,	No. 2, D'ble Elbows, price, each	.38	.52	.68	.90	1.50	2.25	3.00	3.75
" 140,	No. 3, Tees, - " "	.38	.52	.68	.90	1.50	2.25	3.00	3.75

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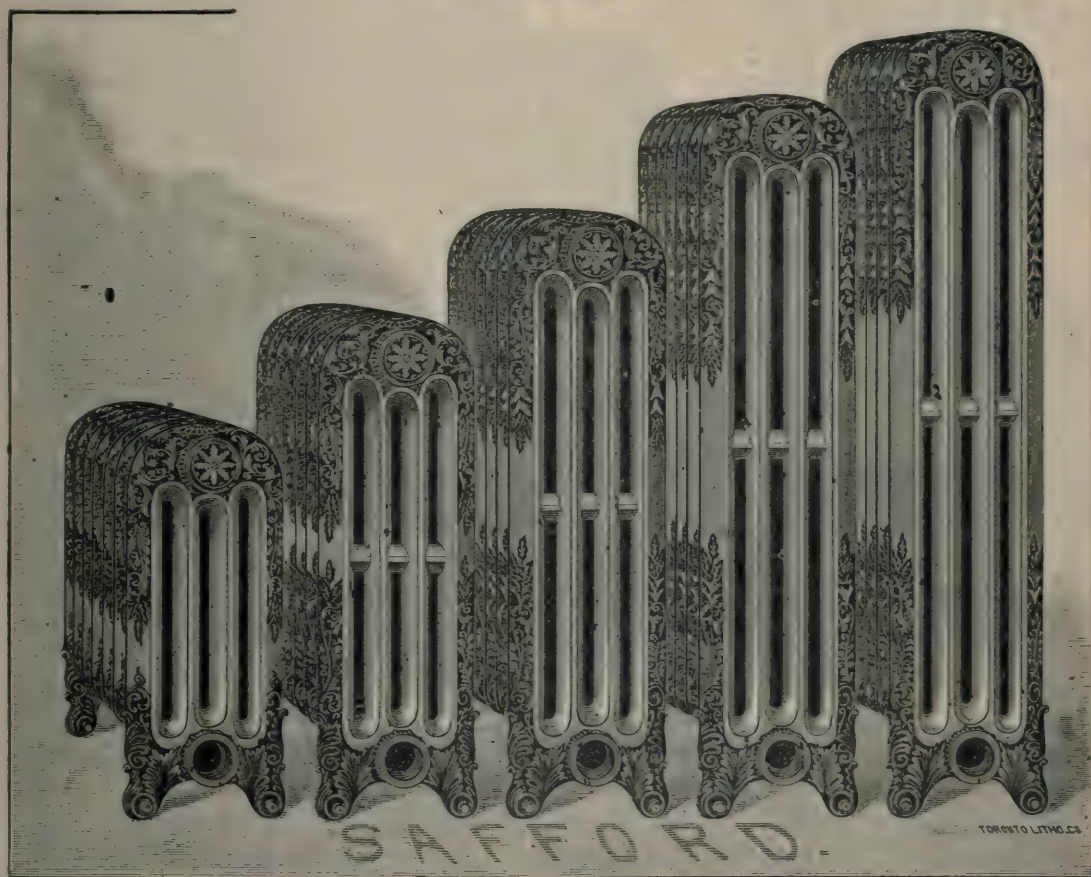
Size of Pipe, Inches.		$4\frac{1}{2}$	5	6	7	8	9	10	12
Fig. 138,	No. 1, Elbows, price, each -	3.50	4.50	6.50	10.00	14.00	17.00	20.00	30.00
" 139,	No. 2, D'ble Elbows, price, each	5.25	6.75	9.75	15.00	21.00	25.00	30.00	45.00
" 140,	No. 3, Tees, - " "	5.25	6.75	9.75	15.00	21.00	25.00	30.00	45.00

Steam and Hot Water Radiators.

The "Safford" Favorite, 2 and 4 Loops Wide.

Fig. 141.

PATENTED, APRIL 16, 1887.



Heights of above are $20\frac{1}{2}$, $26\frac{1}{2}$, $32\frac{1}{2}$, $38\frac{1}{2}$ and $42\frac{1}{2}$ inches.

Four loop, extreme width, $8\frac{1}{2}$ inches.

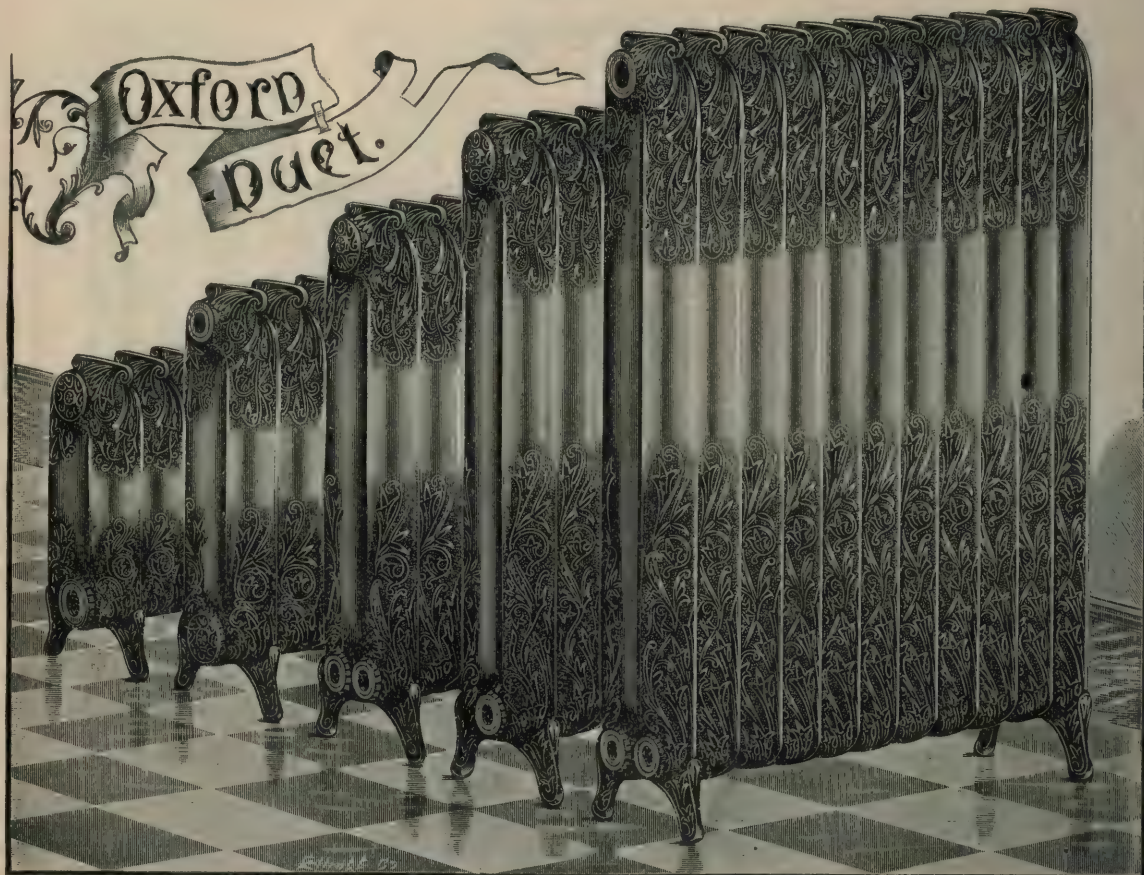
Two loop, extreme width, $6\frac{1}{2}$ inches.

NUMBER OF LOOPS WIDE.	HEIGHT INCHES.	WIDTH INCHES.	LENGTH INCHES PER SECTION.	SQUARE FEET OF HEATING SURFACE.	EQUIV'NT FEET OF 1 INCH PIPE	PRICE.			
						HOT WATER.		STEAM.	
						PER SQ. FOOT.	PER SECTION.	PER SQ. FOOT.	PER SECTION.
2	$20\frac{1}{2}$	$6\frac{1}{2}$	4	2.00	6	57	1.14	$52\frac{1}{2}$	1.05
2	$26\frac{1}{2}$	$6\frac{1}{2}$	4	2.67	8	$52\frac{1}{2}$	1.40	$46\frac{1}{2}$	1.24
2	$32\frac{1}{2}$	$6\frac{1}{2}$	4	3.34	10	48	1.60	42	1.40
2	$38\frac{1}{2}$	$6\frac{1}{2}$	4	4.00	12	$43\frac{1}{2}$	1.74	$37\frac{1}{2}$	1.50
4	$20\frac{1}{2}$	$8\frac{1}{2}$	4	4.00	12	57	2.28	$52\frac{1}{2}$	2.10
4	$26\frac{1}{2}$	$8\frac{1}{2}$	4	5.34	16	$52\frac{1}{2}$	2.80	$46\frac{1}{2}$	2.48
4	$32\frac{1}{2}$	$8\frac{1}{2}$	4	6.67	20	48	3.20	42	2.80
4	$38\frac{1}{2}$	$8\frac{1}{2}$	4	8.00	24	$43\frac{1}{2}$	3.48	$37\frac{1}{2}$	3.00
4	$42\frac{1}{2}$	$8\frac{1}{2}$	4	9.67	29	$43\frac{1}{2}$	4.20	$37\frac{1}{2}$	3.62

The Oxford.

Steam and Hot Water Radiator.

Fig. 142.



NUMBER OF LOOPS WIDE.	HEIGHT INCHES.	LENGTH PER SECTION, INCHES.	WIDTH INCHES.	SQ. FEET OF HEATING SURFACE PER SECTION.	EQUIVALENT FEET OF 1-IN. WROUGHT IRON PIPE PER SECTION.	PRICE.	
						FOR STEAM PER SQ. FOOT.	FOR HOT WATER PER SQ. FOOT.
2	20	21 $\frac{1}{2}$	7 $\frac{7}{8}$	2	6	52 $\frac{1}{2}$	57
2	23	21 $\frac{1}{2}$	7 $\frac{7}{8}$	2 $\frac{1}{3}$	7	49 $\frac{1}{2}$	57
2	26	21 $\frac{1}{2}$	7 $\frac{7}{8}$	2 $\frac{2}{3}$	8	46 $\frac{1}{2}$	52 $\frac{1}{2}$
2	32	21 $\frac{1}{2}$	7 $\frac{7}{8}$	3 $\frac{1}{3}$	10	42	48
2	38	21 $\frac{1}{2}$	7 $\frac{7}{8}$	4	12	37 $\frac{1}{2}$	43 $\frac{1}{2}$
4	20 $\frac{1}{2}$	4 $\frac{1}{4}$	8 $\frac{5}{8}$	4	12	52 $\frac{1}{2}$	57
4	26 $\frac{1}{2}$	4 $\frac{1}{4}$	8 $\frac{5}{8}$	5 $\frac{1}{3}$	16	46 $\frac{1}{2}$	52 $\frac{1}{2}$
4	32 $\frac{1}{2}$	4 $\frac{1}{4}$	8 $\frac{5}{8}$	6 $\frac{2}{3}$	20	42	48
4	38 $\frac{1}{2}$	4 $\frac{1}{4}$	8 $\frac{5}{8}$	8	24	37 $\frac{1}{2}$	43 $\frac{1}{2}$

All Steam Radiators containing 48 Square Feet and under are tapped 1 in. x $\frac{3}{4}$ in.

“ “ “ “ over 48 Square Feet “ “ 1 $\frac{1}{4}$ in. x 1 in.

All Hot Water Radiators containing 48 Square Feet and under are tapped 1 in. x 1 in.

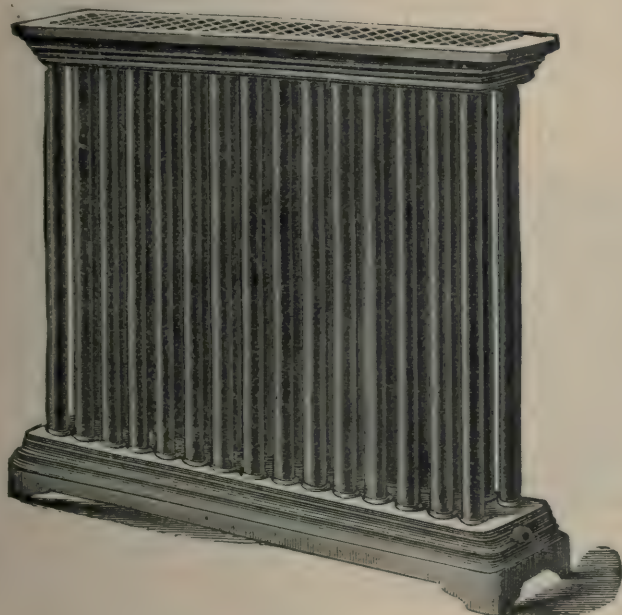
“ “ “ “ over 48 Square Feet “ “ 1 $\frac{1}{4}$ in. x 1 $\frac{1}{4}$ in.

Pipe Radiator, Box and Wall Coils, &c., &c.

Vertical Tube Radiator For Steam.

Fig. 143.

Fig. 144.



Oblong.



Circular.

Fig 145. **Box Coil.**

Fig. 146. **Ornamental Wall Coil.**

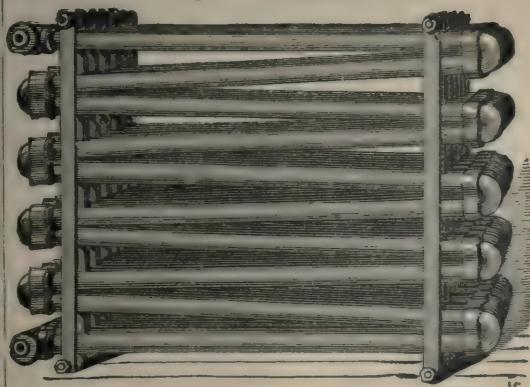
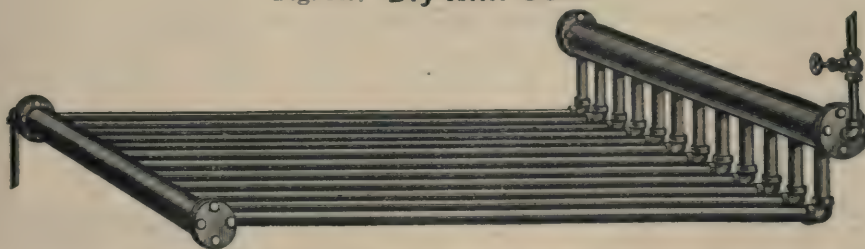


Fig. 147. **Dry Kiln Coil.**



Pipe Radiators, Box, Wall and Dry Kiln Coils are only made to order. Prices on application.

Tanners.

Brass Tube Heating Coils For Liquor Vats.

Fig. 148. No. 1 Coil.

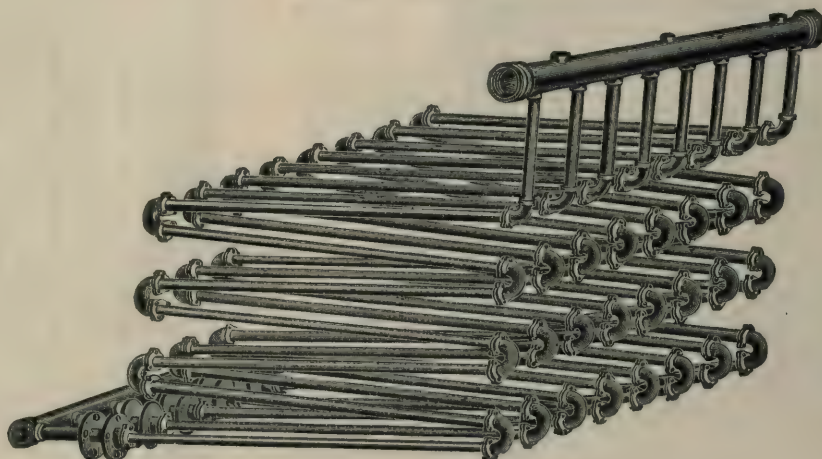


Fig. 149. No. 2 Coil.

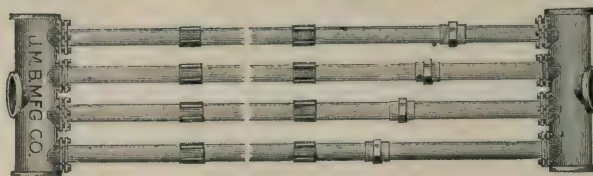


Fig. 148, No. 1 Coil.—These Coils can be made of any size of Tube, any number of Tubes High, and any number of Tubes Wide that may be required. Made either in Copper or Brass.

Fig. 149, No. 2 Coil.—Can be made any length and any number of Pipes Wide that may be required. Made either in Copper or Brass.

NOTE.—In ordering any of these Coils it is important that the Boiler Pressure be given, so that Tubes of sufficient strength to stand the Pressure may be used in their construction.

These Coils are only made to order. Prices on application.

Leach Sprinkler, for Tanneries.

Fig. 150.



Two-arm Leach Sprinkler, price each.....\$25.00

Hot Water Boilers.

Fig. 151. The "Oxford."

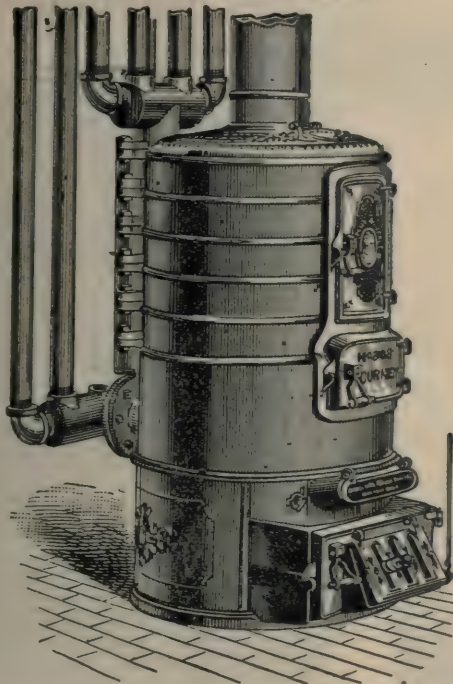
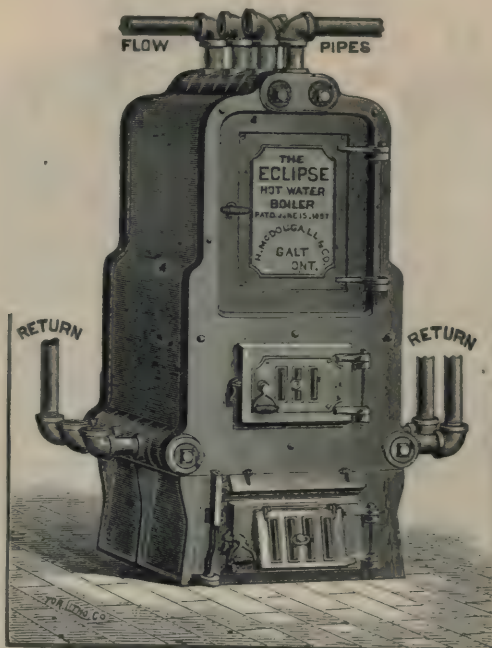


Fig. 152. The "Eclipse."



THE "OXFORD."

Fig. 151.

NO.	CAPACITY IN 1-IN. PIPE. FEET.	CAPACITY IN 4-IN. PIPE. FEET.	HEIGHT IN INCHES.	DIAMETER IN INCHES.	DIAMETER OF SMOKE PIPE.	FLOWS & RETURNS.		LIST PRICE.
						NO.	SIZE.	
0	500	170	42½	22	7½ in.	4	2 in.	50.00
1	700	235	50	22	7½ "	4	2 "	67.00
2	1000	335	53	25¼	7½ "	4	2 "	80.00
3	1500	500	53	27	7½ "	4	2 "	108.00
4	2000	670	55	30	8 "	4	2 "	136.00
5	2500	835	58½	33¼	10½ "	6	2 "	164.00
6	3000	1000	59½	35½	10½ "	7	2 "	188.00
7	4500	1500	66	39	11½ "	10	2 "	290.00
8	6000	2000	66	42	11½ "	12	2 "	316.00

THE "ECLIPSE."

Fig. 152.

NO.	CAPACITY IN 1-IN. PIPE. FEET.	CAPACITY IN 4-IN. PIPE. FEET.	HEIGHT IN INCHES.	WIDTH IN INCHES.	LENGTH IN INCHES.	DIAMETER OF SMOKE PIPE.	FLOWS & RETURNS.		LIST PRICE.
							NO.	SIZE.	
1	700	235	48	20	20	7	2	2 in.	65.00
2	1000	335	48	20	24	7	3	2 "	75.00
3	1500	500	52	22	22	8	4	2 "	105.00
4	2000	665	52	22	26½	8	5	2 "	120.00
5	2500	835	62	26½	26½	9	5	2 "	140.00
6	3000	1000	62	26½	31	9	6	2 "	160.00
7	3500	1165	62	26½	36	10	7	2 "	180.00
8	4000	1335	62	26½	40½	10	8	2 "	210.00
9	4500	1500	62	26½	45	12	9	2 "	240.00
10	5000	1665	62	26½	49½	12	10	2 "	270.00

Hot Water Boilers.

Fig. 153. The "Daisy."

Fig. 154. The "Otton."

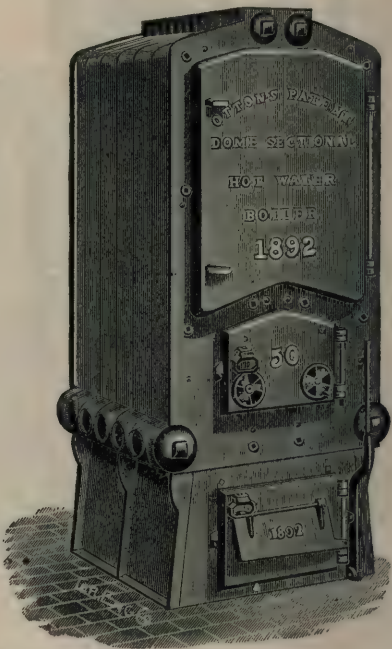
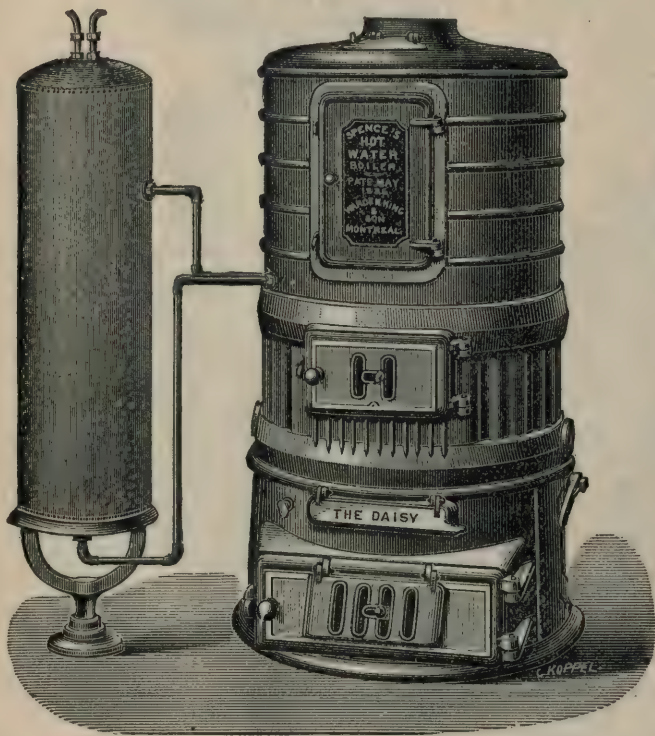


Fig. 153. The "Daisy."

NO.	CAPACITY IN 1-IN. PIPE, FEET.	CAPACITY IN 4 IN. PIPE, FEET.	HEIGHT OF HEATER.	DIAM. OF HEATER.	DIAM. OF FIRE POT	DEPTH OF FIRE POT.	FLOWS AND RETURNS.		LIST PRICE.
							NO.	SIZE.	
1	700	235	44 in.	19 in.	16 in.	14 in.	4	1½	\$ 67.00
2	1000	335	52 "	22 "	19 "	15 "	4	2	80.00
3	1500	500	54 "	24 "	21 "	15 "	4	2	108.00
4	2000	670	55 "	27 "	24 "	15 "	4	2	136.00
5	2500	835	57 "	29 "	26 "	15 "	6	2	164.00
6	3000	1000	58 "	31 "	28 "	15 "	7	2	188.00
7	4500	1500	70 "	36½ "	32 "	17 "	10	2	290.00
8	6000	2000	70 "	42 "	36 "	17 "	12	2	316.00
9	7500	2500	76 "	42 "	36 "	17 "	12	2	370.00
10	12000	4000	87 "	48½ "	44 "	18 "	As Ordered		600.00

Fig. 154. The "Otton."

NO.	CAPACITY IN 1-IN. PIPE, FEET.	CAPACITY IN 4-IN. PIPE, FEET.	HEIGHT IN INCHES.	WIDTH IN INCHES.	LENGTH IN INCHES.	GRATE SURFACE INCHES.	FLOWS AND RETURNS.		LIST PRICE.
							NO.	SIZE.	
40	1500	500	62	28	21	19½ x 16	4	2	\$105.00
50	2100	700	62	28	25	19½ x 20½	5	2	130.00
60	2500	850	62	28	29	19½ x 24	6	2	150.00
70	2900	1000	62	28	33	19½ x 28	7	2	170.00
80	3350	1150	62	28	37	19½ x 32	8	2	190.00
90	3750	1300	62	28	41	19½ x 37	9	2	215.00
100	4200	1500	62	28	45	19½ x 41½	10	2	245.00

Hot Water Boilers.

Fig. 155. The "Diamond."

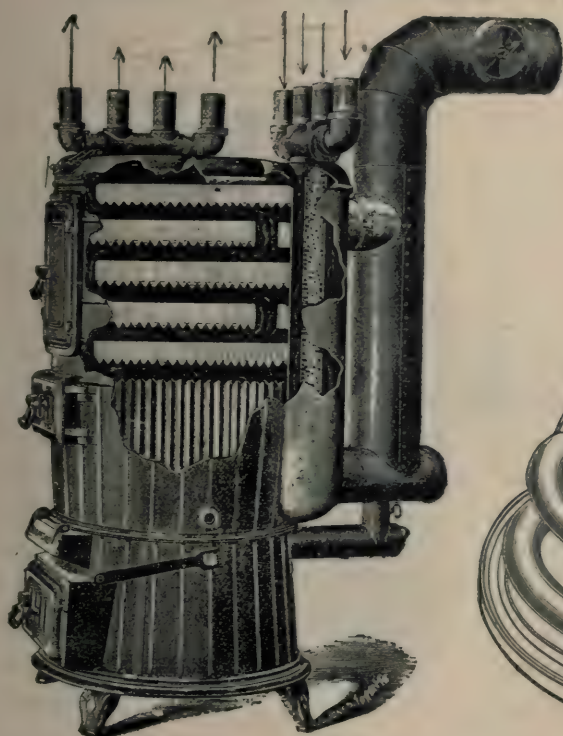


Fig. 156. Bigley's Patent Hot Water Heater.

No. of Patent, 417,222.

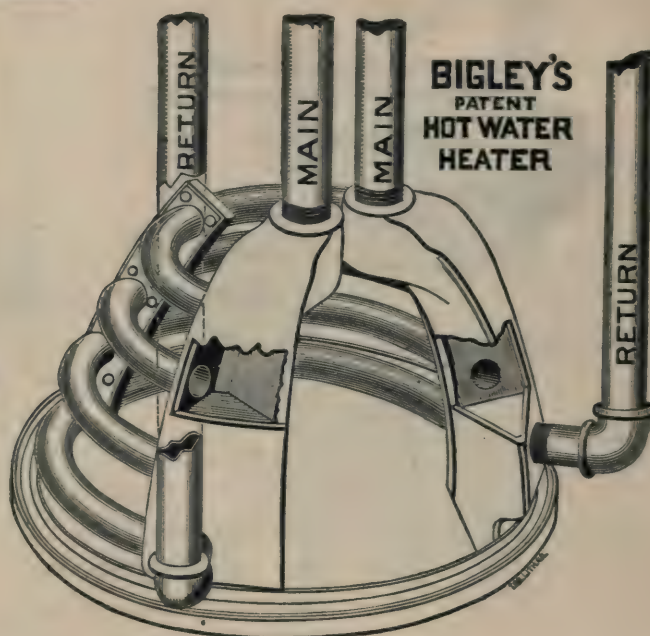


Fig. 155. The "Diamond."

NUMBER.	DIAMETER OF HEATER, INCHES.	HEIGHT OF HEATER, INCHES.	HEATING CAPACITY IN 1 IN. PIPE, EXCLUSIVE OF MAIN.	PRICE.
22	23 inches	51 inches	1000 feet	\$ 80 00
33	25 "	54 "	1500 "	108 00
44	28 "	55 "	2000 "	136 00
55	30 "	57 "	2500 "	164 00
66	32 "	58 "	3000 "	188 00
77	37 "	70 "	4500 "	290 00

Fig. 156. Bigley's Patent Hot Water Heater.

NUMBER.	DIAMETER OF HEATER, INCHES.	HEATING CAPACITY IN 1 IN. PIPE,	SIZE OF PIPE TAPPED FOR.	PRICE.
1	18 inches	1000 feet	1½ inch Pipe	\$19 00
2	20 "	1500 "	2 " "	23 00
3	22 "	2000 "	2 " "	26 00
4	24 "	2800 "	2 " "	29 00
5	28 "	3500 "	2½ " "	32 00

The Bigley Heater will fit on Fire Pots of Furnaces of corresponding size, and are guaranteed under ordinary circumstances to heat the quantity of pipe specified, including mains and returns.

NOTE.—A small Heater can be placed in a large Furnace.

Return Steam Traps.

The Albany Steam Trap Co.'s Return Traps.

Fig. 157.

Gravitating Return Trap.

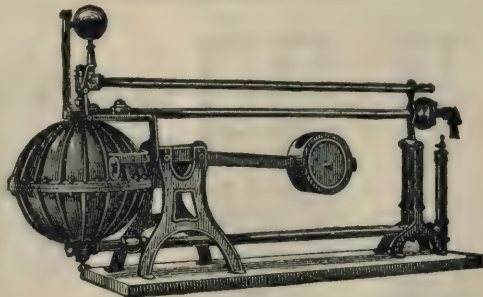
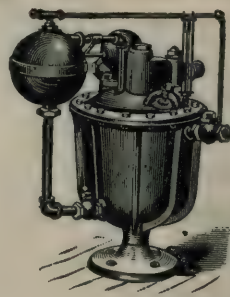


Fig. 158.

Special Bucket Return Trap.



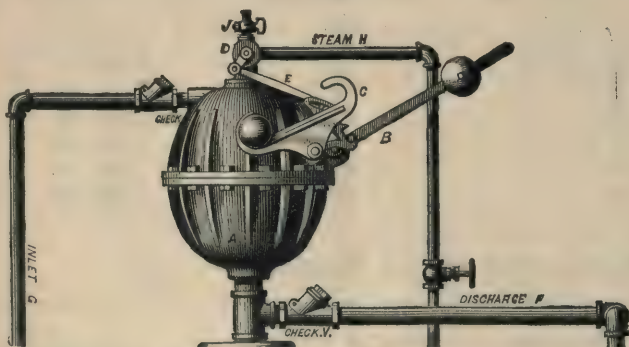
CAPACITIES, PRICES, &c.

No. 1.—Gravitating or Special Bucket Trap.	Capacity, 7,000 feet of 1-inch pipe.....	\$150.00
No. 2.—Gravitating or Special Bucket Trap.	Capacity, 3,500 feet of 1-inch pipe.....	100.00
Drip Tanks	No. 1.—For No. 1 Trap	10.00
	No. 2.—For No. 2 Trap	10.00
Equalizing Valves.	No. 1.—For Gravitating Trap.....	18.00
	No. 2.—For Gravitating Trap.....	18.00
	No. 1.—For Special Bucket Trap.....	18.00
	No. 2.—For Special Bucket Trap.....	16.00

SOLE AGENTS FOR THE PROVINCE OF ONTARIO.

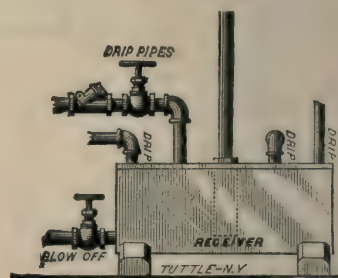
The Pratt & Cady Co.'s Patent Return Steam Trap.

Fig. 159.



Receiver for Steam Traps.

Fig. 160.



The service of Traps depends on circumstances, but the following estimate is a safe one:

Trap.	Will Drain 1.Pipe.	Water Delivery.	Price.
No. 1	4,000 to 5,000 feet	200 gallons per hour	100.00
No. 2	8,000 to 10,000 feet	350 gallons per hour	150.00
No. 3	15,000 to 20,000 feet	550 gallons per hour	200.00
No. 4	30,000 to 40,000 feet	800 gallons per hour	300.00

Receivers—No. 1, \$8.00; No. 2, \$10.00; No. 3, \$12.00. Check and Globe Valves extra.

Steam Traps.

Nason's.

Fig. 161.



Hawe's Improved.

Fig. 162.

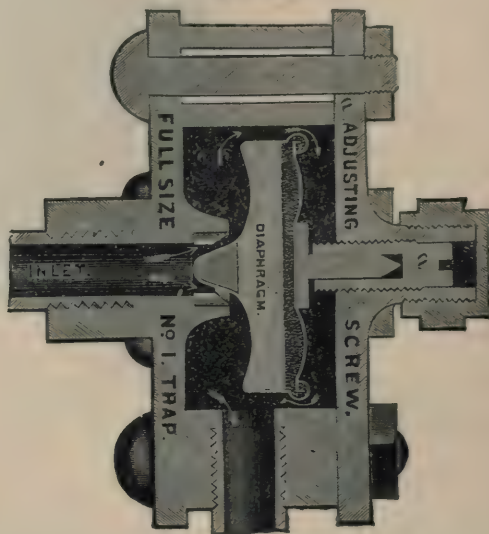


Fig. 161. Nason's Steam Trap.

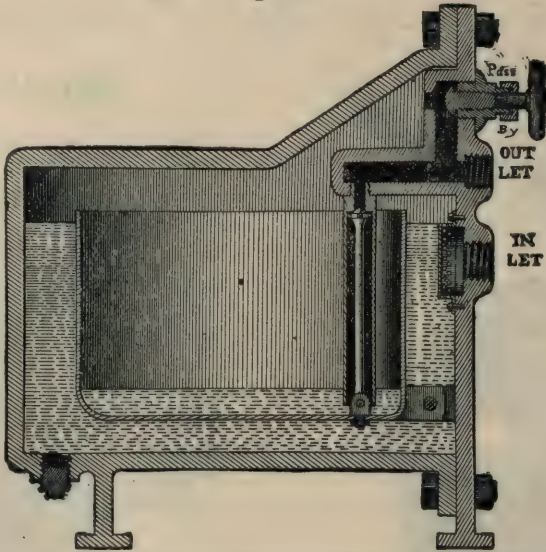
Number.	1	2	3	4	5
Size of Pipe Connections - - -	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Number of feet of 1-inch Pipe which } they will drain.	1050	2700	4200	6000	10500
Price, each - - - - -	16.00	20.00	27.50	42.50	70.00

Fig. 162. Hawe's Improved Steam Trap.

Number.	2	3	4
Size of Pipe Connections - - -	$\frac{3}{4}$	1	$1\frac{1}{4}$
Number of Feet of 1-inch Pipe which } they will drain.	1000	2000	4000
Traps, Complete, price each - -	15.00	20.00	25.00
New Diaphragms, price, each -	2.25	2.25	2.25
Diaphragms, refilled and tested, price, } each	.75	.75	.75

The “Kieley” Steam Trap.

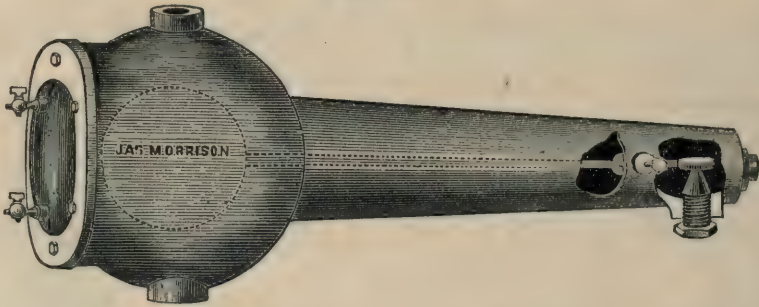
Fig. 163.



Number	1	2	3	4	5
No. of feet 1 in. pipe they will drain	4,000	6,000	10,000	15,000	25,000
Price, each	25 00	35 00	45 00	60 00	80 00

Low Pressure Water Feeder.

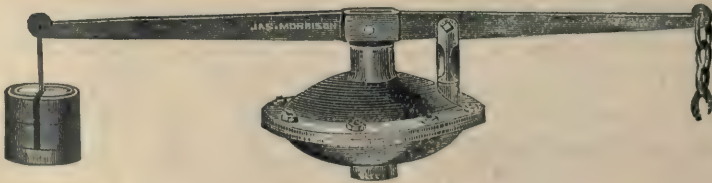
Fig. 164.



Price, each..... \$25 00

Low Pressure Damper Regulator.

Fig. 165.



Price, each..... \$8 00
Rubber Diaphragms, Price Each..... 2 00

Fusible Plugs.

Fig. 166.

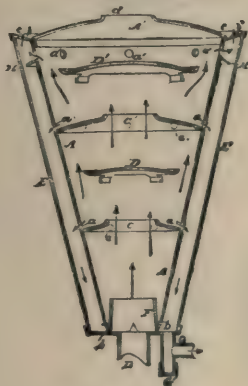


Size, Inches.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price, each - -	.60	.75	1.00	1.25	1.75	2.50

Patent Condenser Heads For Exhaust Pipes.

The "Keystone" Exhaust Pipe Head.

Fig. 167.



Sectional View.

Fig. 168.



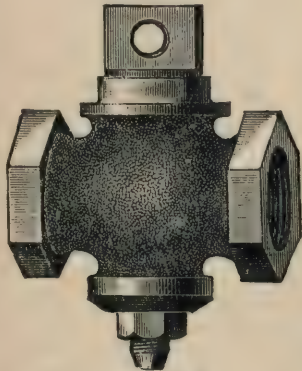
Size, Inches.	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	8	10
Fig. 167. Screwed, price, each	25.00	27.50	30.00	35.00	40.00				
" " Flanged, " "						50.00	60.00	85.00	120.00
" 168, Screwed, " "	14.00	16.00	18.00	21.00	24.00	30.00			
" " Flanged, " "							36.00	50.00	85.00

No wet roofs or sidewalks, where these Condenser Heads are used.

Iron Cocks.

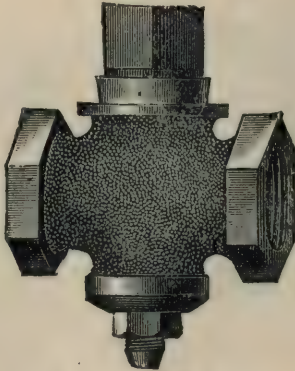
All Iron, and Iron With Brass Plugs.

Fig. 169.



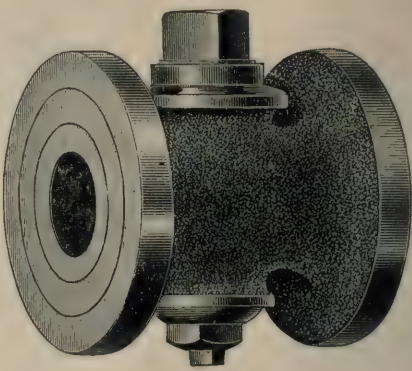
Flat Head.

Fig. 170.



Square Head.

Fig. 171.



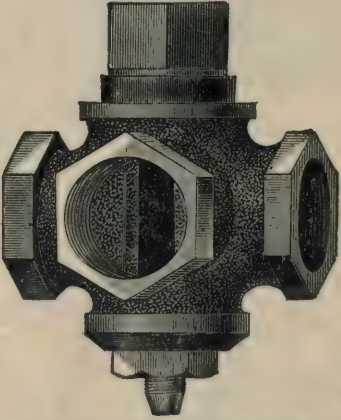
Flanged.

SIZE, INCHES.			$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Fig. 169.	All Iron,	- - price, each	.80	.90	1.25	1.50	2.00	2.60	4.50	6.50	12.00	16.00	33.00	45.00
"	"	With Brass Washers,	.90	1.00	1.40	1.75	2.25	3.00	5.00	7.50	14.00	19.50	39.00	53.00
"	"	With Brass Plugs,	1.20	1.60	2.00	2.75	4.00	5.00	9.50	13.50	30.00	40.00	70.00	95.00
"	170.	All Iron,	.80	.90	1.25	1.50	2.00	2.60	4.50	6.50	12.00	16.00	33.00	45.00
"	"	With Brass Washers,	.90	1.00	1.40	1.75	2.25	3.00	5.00	7.50	14.00	19.50	39.00	53.00
"	"	With Brass Plugs,	1.20	1.60	2.00	2.75	4.00	5.00	9.50	13.50	30.00	40.00	70.00	95.00
"	171.	All Iron,			2.25	2.75	3.50	4.35	6.50	9.50	15.50	20.00	37.00	50.00
"	"	With Brass Washers,			2.40	3.00	3.75	4.75	7.00	10.50	17.50	23.50	43.00	58.00
"	"	With Brass Plugs,			3.00	4.00	5.50	6.75	11.50	16.50	33.50	44.00	75.00	101.00
Diameter of Flanges, inches					4	$4\frac{1}{2}$	5	$6\frac{1}{2}$	7	8	$8\frac{1}{2}$	9	10	11

Three-Way Iron Cocks.

All Iron, and Iron With Brass Plugs.

Fig. 172.



SIZE, INCHES.			$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Screwed,	All Iron,	- - price, each	1.30	1.75	2.00	2.75	4.00	6.00	8.50	15.00	20.00	40.00	55.00
"	With Brass Washers,	" "	1.40	1.90	2.25	3.00	4.40	6.50	8.50	17.00	23.50	46.00	63.00
"	With Brass Plugs,	" "	2.00	2.50	3.25	4.75	6.50	11.00	15.50	33.00	44.00		

NOTE.—Iron Cocks, with Brass Plugs should not be used for Steam or Hot Water, as in consequence of the unequal expansion of the metals they are liable to break in opening or closing.

Revised Price List of IRON COCKS.

STANDARD.

Size, Inches	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6
Fig. 169. All Iron, Scd. each	.90	1.05	1.30	1.60	1.95	2.70	4.40	6.75	12.00	15.50	32.00	45.00
" 169. with Br's Washer, Scd. "	1.00	1.20	1.55	1.95	2.35	3.20	5.15	7.75	14.00	19.00	38.00	53.00
" 169. " Br's Plug & W'sh'r Scd. "	1.40	1.75	2.15	3.00	4.15	5.75	9.50	14.00	29.50	40.00	73.00	102.00
" 170. All Iron, Scd. "	.90	1.05	1.30	1.60	1.95	2.70	4.40	6.75	12.00	15.50	32.00	45.00
" 170. with Brass Washer, Scd. "	1.00	1.20	1.55	1.95	2.35	3.20	5.15	7.75	14.00	19.00	38.00	53.00
" 170. " Br's Plug & W'shr, " "	1.40	1.75	2.15	3.00	4.15	5.75	9.50	14.00	29.50	40.00	73.00	102.00
" 171. All Iron, Flgd. "	.....	.....	2.25	2.75	3.25	4.25	6.25	9.50	15.00	19.00	36.00	50.00
" 171. with Brass Washer, Flgd. "	.....	.....	2.50	3.10	3.65	4.75	7.00	10.50	17.00	22.50	42.00	58.00
" 171. " Br's Plug & W'sh'r, " "	.....	.....	3.25	4.10	5.40	7.50	11.25	16.75	32.00	43.50	76.00	108.00

THREE-WAY IRON COCKS.

STANDARD.

Size, Inches	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6
Fig. 172. All Iron, Scd. each	1.65	1.80	2.05	2.65	3.65	5.35	7.50	14.00	19.00	36.50	52.00
" 172. with Brass Washer, Scd. "	1.80	2.05	2.40	3.05	4.15	6.10	8.50	16.00	22.50	42.50	60.00
" 172. " Br's Plug & W'sh'r, " "	2.35	2.65	3.45	4.90	6.75	10.50	14.75	32.00	43.50	77.50	108.00
" 172. All Iron, Flgd. "	3.75	4.25	5.25	7.00	9.00	12.75	20.00	26.00	44.00	60.00
" 172. with Brass Washer, Flgd. "	4.00	4.60	5.65	7.50	9.75	13.75	22.00	29.50	50.00	68.00
" 172. " Br's Plug & W'sh'r, " "	4.75	5.60	7.40	10.00	14.00	20.00	38.00	50.50	86.00	116.00

IRON COCKS.

EXTRA HEAVY.

Size, Inches	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6
Fig. 173. All Iron, Scd. each	1.15	1.25	1.75	2.10	2.80	3.65	6.50	9.00	16.75	22.50	45.00	62.00
" 173. with Brass Washer, Scd. "	1.25	1.40	2.00	2.45	3.20	4.15	7.25	10.00	18.75	26.00	51.00	70.00
" 173. " Br's Plug & W'sh'r, " "	1.80	2.40	3.05	4.20	6.00	7.50	14.00	20.00	44.00	59.50	104.00	141.00

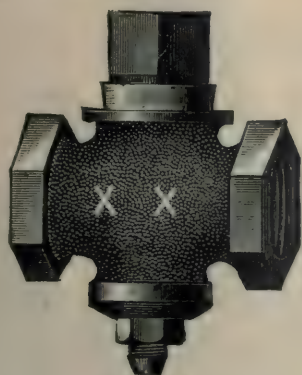
THREE-WAY IRON COCKS.

EXTRA HEAVY.

Size, Inches		$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Fig. 175. All Iron, Scd, each		1.80	2.50	2.80	3.90	5.60	8.40	12.00	21.00	28.00	56.00	77.00
" 175. with Brass Washer, Scd. "		1.95	2.75	3.15	4.30	6.10	9.15	13.00	23.00	31.50	62.00	85.00
" 176. " Br's Plug & W'sh'r, " "		2.95	3.75	4.85	7.15	9.75	16.25	23.00	48.00	65.50	113.00	154.00

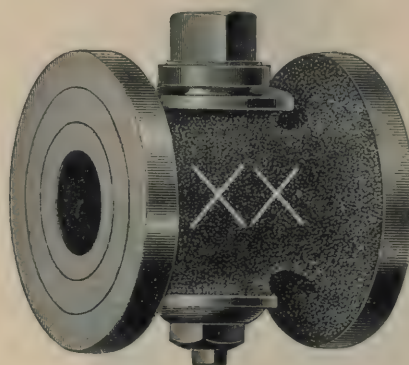
Extra Heavy Iron Cocks.

Fig. 173.



Screwed.

Fig. 174.



Flanged.

Size, Inches.		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
173	All Iron. Price Each.	1.15	1.25	1.75	2.10	2.80	3.65	6.30	9.10	16.80	22.40	45.00	62.00
	With Brass Washers, "	1.25	1.35	1.90	2.35	3.05	4.05	6.80	10.10	18.80	25.90	51.00	70.00
	With Brass Plugs, "	1.70	2.24	2.80	3.85	5.60	7.00	13.30	18.90	42.00	56.00	98.00	133.00
174	All Iron, "			3.15	3.85	4.90	6.10	9.10	13.30	21.70	28.00	51.80	70.00
	With Brass Washers, "			3.30	4.10	5.15	6.50	9.60	14.30	23.70	31.50	57.80	78.00
	With Brass Plugs, "			4.20	5.60	7.70	9.45	16.10	23.10	46.90	61.60	105.00	140.00
Distance, Face to Face of Flanges		Inc's		$4\frac{1}{4}$	$4\frac{1}{2}$	$5\frac{1}{2}$	$6\frac{1}{2}$	$7\frac{1}{2}$	9	$10\frac{1}{4}$	11	12	13
Diameter of Flanges.				4	$4\frac{1}{2}$	5	$6\frac{1}{2}$	7	8	$8\frac{1}{2}$	9	10	11

Three Way Iron Cocks, Extra Heavy.

Fig. 175.

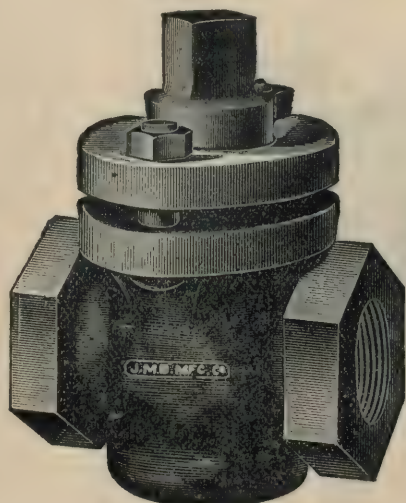


Size. Inches.		$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
All Iron.	Price Each.	1.80	2.45	2.80	3.85	5.60	8.40	11.90	21.00	28.00	56.00	77.00
With Brass Washers,	"	1.90	2.60	3.05	4.10	6.00	8.90	12.90	23.00	31.50	62.00	85.00
With Brass Plugs,	"	2.80	3.50	4.50	6.65	9.10	15.40	21.70	46.00	61.60	107.00	146.00

Iron Cocks.

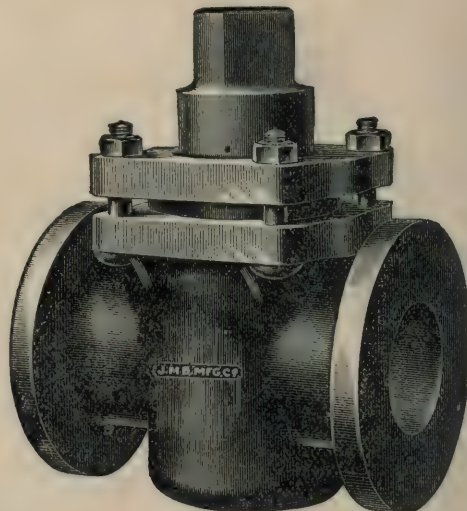
Asbestos Packed.

Fig. 176.



Screwed.

Fig. 177.

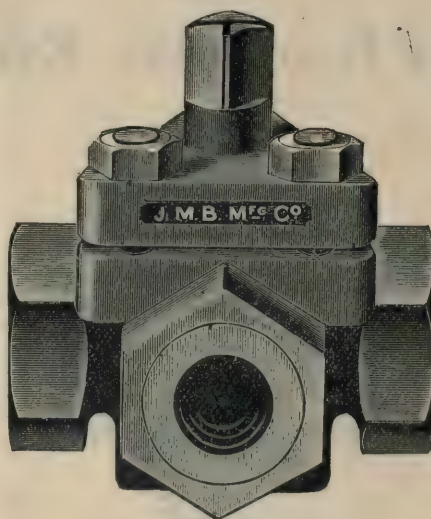


Flanged.

Size, Inches.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Fig. 176, Screwed, price each	1.60	2.10	2.50	3.50	4.75	7.00	12.00	18.00	27.00	30.00	45.00	60.00
" 177, Flanged, "	...	...	2.50	3.50	4.75	7.00	12.00	18.00	27.00	30.00	45.00	60.00
Diam. of Flanges, Inches	...	...	$4\frac{1}{2}$	5	6	7	7	7	$8\frac{1}{2}$	9	10	11

Three Way Iron Cocks, Asbestos Packed.

Fig. 178.



Screwed and Flanged.

Size, Inches.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Screwed, Price Each	3.75	5.25	7.25	10.00	18.00	25.00	30.00	35.00	50.00	.....
Flanged, " "	....	....	.....	.....	20.00	28.00	35.00	45.00	60.00	.....
Diam. of Flanges, Inches	....	....	.....	.....	6	7	7	7	$8\frac{1}{2}$	.....

Iron Body Gate Valves.

For Steam and Water.

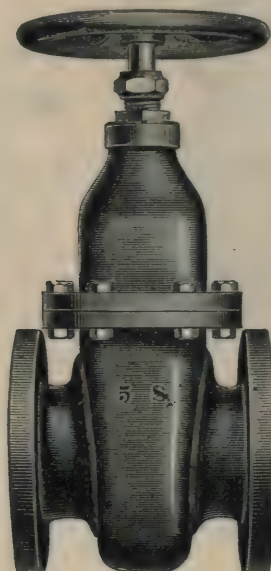
The "Chapman" Double Faced Gate Valve.

Fig. 179.



Screwed.

Fig. 180.

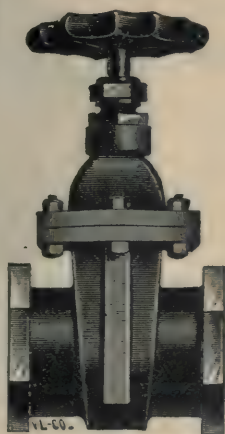


Flanged.

Size, Inches.	2½	3	3½	4	4½	5	6	7	8	10	12
Fig. 179, Screwed, Price Each.	10.00	13.00	16.50	19.00	23.00	25.00	32.00	38.00	48.00	....	....
" 180, Flanged, " "	10.00	13.00	17.00	18.50	22.00	24.00	31.00	37.00	45.00	64.00	86.00

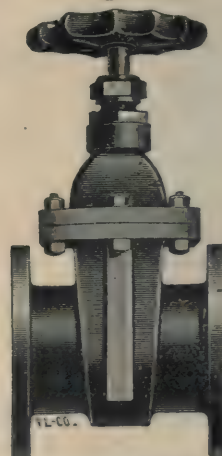
The "Webber" Double Faced Gate Valve.

Fig. 181.



Screwed

Fig. 182.

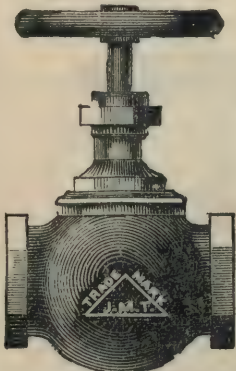


Flanged

Size, Inches.	2	2½	3	3½	4	4½	5	6	7	8	10
Fig. 181, Screwed, Price Each.	7.00	10.00	12.00	16.00	18.00	....	25.00	32.00	41.00	50.00	....
" 182, Flanged, " "	....	10.00	12.00	16.00	18.00	....	24.00	31.00	36.00	45.00	....

Iron Body Valves.

Fig. 183.



Screwed.

Fig. 184.



Flanged.

J.M.T.

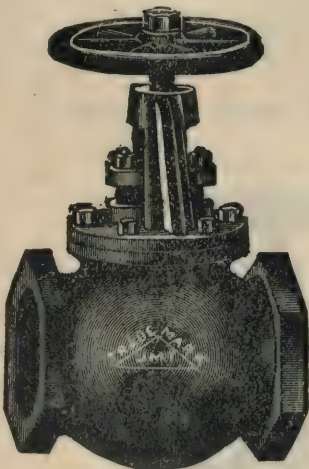
Globe Valves,

Without Yoke, Brass Mounted.

Screwed and Flanged Ends.

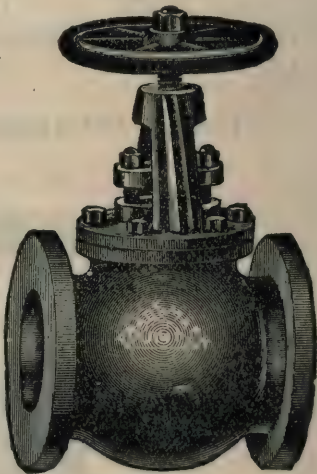
Size, inches	2	2½	3
Fig. 183—Screwed with Jenkins' Discs. Price, each	7 25	11 00	16 00
" " " Copper Discs. " "	8 25	12 00	17 00
Fig. 184—Flanged with Jenkins' Discs. " "	8 50	13 00	18 00
" " " Copper Discs. " "	9 50	14 00	19 00

Fig. 185.



Screwed.

Fig. 186.



Flanged.

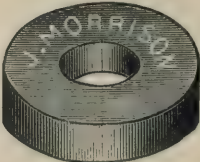
J.M.T.
Globe Valves.

With Yoke, Brass Mounted.

Screwed and Flanged Ends.

Copper Discs.

Fig. 187.



Size, inches	2½	3	3½	4
Fig. 185—Screwed with Jenkins' Discs. Price each	12 00	16 75	19 50	24 00
" " " Copper Discs. " "	13 00	17 75	21 00	25 50
Fig. 186—Flanged with Jenkins' Discs. " "	14 00	18 50	21 50	26 00
" " " Copper Discs. " "	15 00	19 50	23 00	27 50
Fig. 187—Copper Discs	1 00	1 25	1 50	1 75

NOTE.—For all Pressures over 100 lbs. Copper Discs only should be used. For the High Pressures now being carried on Steam Boilers the Copper Discs only give satisfaction.

Iron Body Valves.

Fig. 188.



Screwed.

Fig. 189.



Flanged.

J.M.T. Angle Valves.

Without Yoke. Brass Mounted.

Screwed and Flanged Ends.

Size, inches.....	2½	3
Fig. 188—Screwed, with Jenkins' Discs.....	11 00	16 00
“ “ “ “ Copper Discs	12 00	17 00
Fig. 189—Flanged, with Jenkins' Discs.....	13 00	18 00
“ “ “ “ Copper Discs	14 00	19 00

Fig. 190.



Screwed.

Fig. 191.



Flanged.

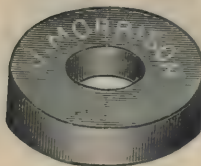
J.M.T. Angle Valves.

With Yoke. Brass Mounted.

Screwed and Flanged Ends.

Copper Discs.

Fig. 192.



Size, inches	2½	3	3½	4
Fig. 190—Screwed, with Jenkins' Discs, price, each.....	12 00	16 75	19 50	24 00
“ “ “ “ Copper Discs, “ “	13 00	17 75	21 00	25 50
Fig. 191—Flanged, with Jenkins' Discs, “ “	14 00	18 50	21 50	26 00
“ “ “ “ Copper Discs, “ “	15 00	19 50	23 00	27 50
Fig. 192—Copper Discs	1 00	1 25	1 50	1 75

Iron Body Valves.

Fig. 193.



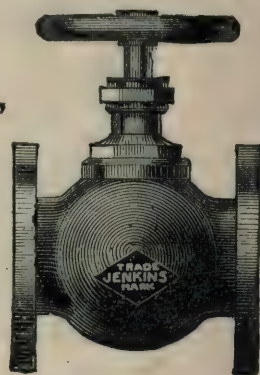
Screwed.

"Jenkin's Patent Globe Valves," Without Yoke.

BRASS MOUNTED.

Screwed and Flanged Ends.

Fig. 194.



Flanged.

Size.	Inches.		2½	3
Fig. 193.	Screwed.	Price Each	11.00	16.00
Fig. 194.	Flanged.	" "	13.00	18.00

"Jenkin's" Patent Globe Valves, With Yoke.

BRASS MOUNTED.

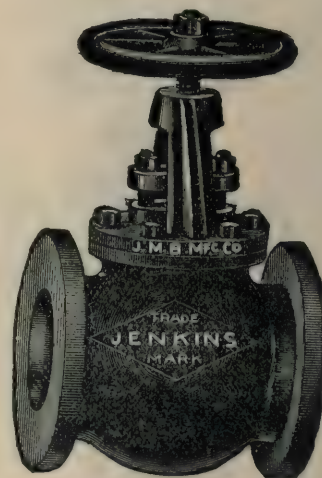
Screwed and Flanged Ends.

Fig. 195.



Screwed.

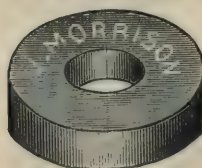
Fig 196.



Flanged.

Jenkin's Discs.

Fig. 197.



Size.	Inches.		2½	3	3½	4	4½	5	6	7	8	10	12
Fig. 195.	Screwed.	Price Each.	12.00	16.75	19.50	24.00	32.00	40.00	48.00	80.00	90.00	130.00	185.00
"	196, Flanged.		14.00	18.50	21.50	26.00	34.00	42.00	50.00	80.00	90.00	130.00	185.00
"	197, Discs.		45	60	80	95	1.20	1.20	1.60	1.75	2.00	2.75	3.75

Iron Body Valves.

Fig. 198.



Screwed.

"Jenkins" Patent Angle Valves Without Yoke.

BRASS MOUNTED.

Screwed and Flanged Ends.

Fig. 199.



Flanged.

Size, Inches.....	2½	3
Fig. 198. Screwed, price, each	11.00	16.00
" 199. Flanged, " "	13.00	18.00

Fig. 200.



Screwed.

"Jenkins" Patent Angle Valves With Yoke.

BRASS MOUNTED.

Screwed and Flanged Ends.

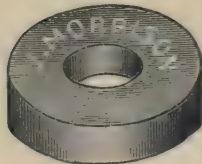
Fig. 201.



Flanged.

Jenkins' Discs.

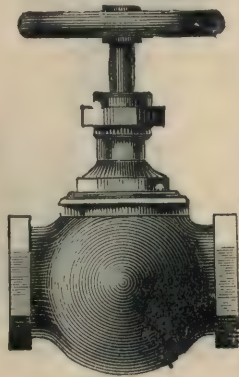
Fig. 202.



Size, Inches.	2½	3	3½	4	4½	5	6	7	8	10	12
Fig. 200. Screwed, price, each	12.00	16.75	19.50	24.00	32.00	40.00	48.00	80.00	90.00	130.00	185.00
" 201. Flanged, " "	14.00	18.50	21.50	26.00	34.00	42.00	50.00	80.00	90.00	130.00	185.00
" 202. Discs, " "	.45	.60	.80	.95	1.20	1.20	1.60	1.75	2.00	2.75	3.75

Iron Body Valves.

Fig. 203.



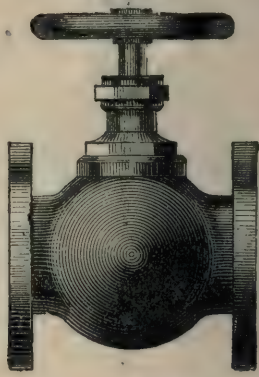
Screwed.

Iron Body Globe Valves
Without Yoke.

BRASS MOUNTED.

Screwed and Flanged Ends.

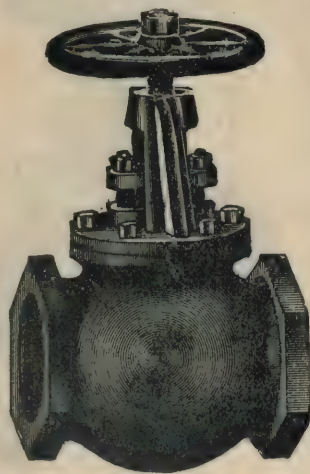
Fig. 204.



Flanged.

Size, inches.....	1¼	1½	2	2½	3
Fig. 203—Screwed Ends. Price each	2.50	3.50	5.00	7.50	10.50
Fig. 204—Flanged Ends. “	3.75	5.00	6.75	9.50	13.50

Fig. 205.



Screwed.

Iron Body Globe Valves
With Yoke.

BRASS MOUNTED.

Screwed and Flanged Ends.

Fig. 206.

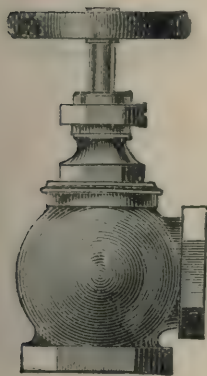


Flanged.

Size, inches	2½	3	3½	4	4½	5	6	7	8	10	12
Fig. 205—Screwed Ends, ea.	10.50	14.50	18.00	21.00	28.00	32.00	44.00	75.00	85.00	135.00	200.00
Fig. 206—Flanged Ends, “	12.50	17.50	21.50	25.00	32.00	36.00	49.00	80.00	91.00	145.00	220.00

Iron Body Valves.

Fig. 207.



SCREWED.

Iron Body Angle Valves Without Yoke.

BRASS MOUNTED.

Screwed and Flanged Ends.

Fig. 208.



FLANGED.

Size, inches	1 1/4	1 1/2	2	2 1/2	3
Screwed ends, price each	2.50	3.50	5.00	7.50	10.50
Flanged Ends	3.75	5.00	6.75	9.50	13.50

Fig. 209.



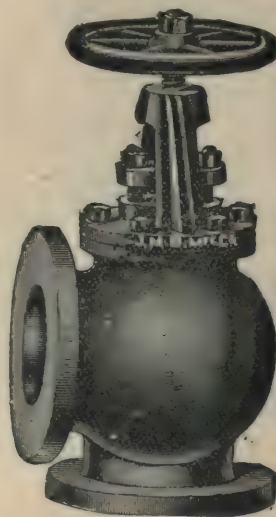
SCREWED.

Iron Body Angle Valves With Yoke.

BRASS MOUNTED.

Screwed and Flanged Ends.

Fig. 210.

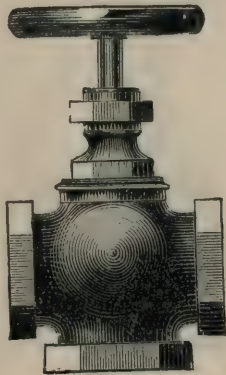


FLANGED.

Size, inches	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8	10	12
Screwed Ends, each	10.50	14.50	18.00	21.00	28.00	32.00	44.00	75.00	85.00	135.00	200.00
Flanged Ends "	12.50	17.50	21.50	25.00	32.00	36.00	49.00	80.00	91.00	145.00	220.00

Iron Body Valves.

Fig. 211.

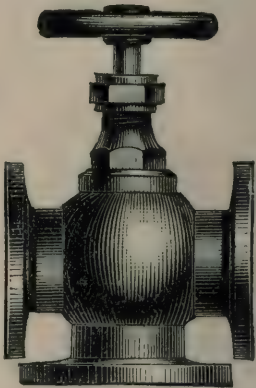


Screwed.

Cross Valves, without Yoke.

BRASS MOUNTED.

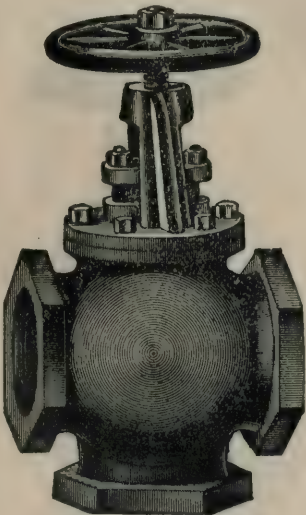
Screwed and Flanged Ends.



Flanged.

Size, Inches.	2	2½	3
Screwed Ends, Price Each.....	6.50	10.00	14.00
Flanged Ends, " ".....	9.00	13.00	18.50

Fig. 212.



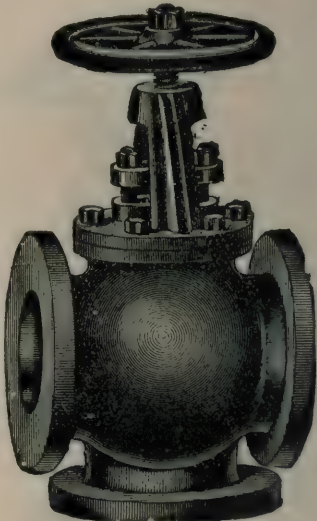
Screwed.

Iron Body Cross Valves
With Yoke.

BRASS MOUNTED.

Screwed and Flanged Ends.

Fig. 213.



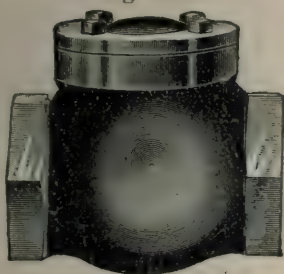
Flanged.

Size, Inches.	2½	3	3½	4	4½	5	6	7	8	10	12
Fig. 212. Screwed Ends, each	13.00	18.00	23.00	27.00	35.00	40.00	54.00	90.00	105.00	175.00	260.00
Fig. 213. Flanged, " "	16.00	22.50	28.25	33.00	41.00	46.00	61.50	95.00	114.00	190.00	290.00

Iron Body Valves.

Check Valves.

Fig. 214.



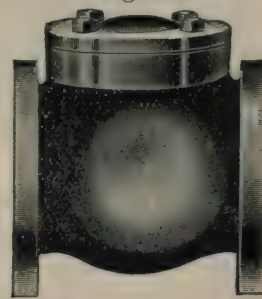
Horizontal, Screwed.

Fig. 215.



Angle, Screwed.

Fig. 216.

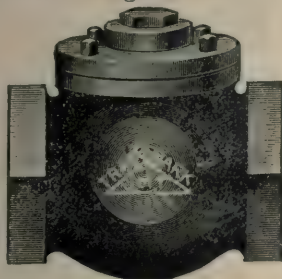


Horizontal, Flanged.

Size, Inches.	2½	3	3½	4	4½	5	6	7	8	10	12
Fig. 214, Horizontal, each	6.25	9.75	12.75	15.00	20.00	24.00	33.00	55.00	65.00	110.00	170.00
" 215, Angle, "	6.25	9.75	12.75	15.00	20.00	24.00	33.00	55.00	65.00	110.00	170.00
216, Flanged, "	8.25	12.75	16.25	19.00	24.00	28.00	38.00	60.00	71.00	120.00	190.00

The J. M. T. Cushioned Check Valve,

Fig. 217.



Screwed.

Iron Body.

BRASS MOUNTED.

Screwed and Flanged.

Fig. 218.



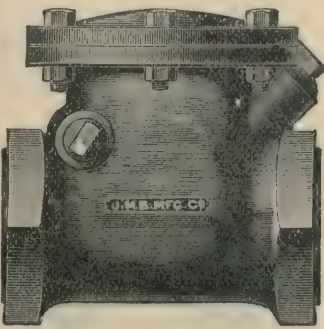
Flanged.

Size. Inches.	2	2½	3	3½	4
Fig. 217, Horizontal, Screwed.....Price Each	10.50	14.00	17.00	20.00
" Angle. "	10.50	14.00	17.00	20.00
" 218, Horizontal, or Angle, Flanged	12.50	16.50	20.00	23.00

NOTE.—The J. M. T. Cushioned Check Valve is the BEST and only RELIABLE Check Valve for Pressures of 100 lbs. or over.

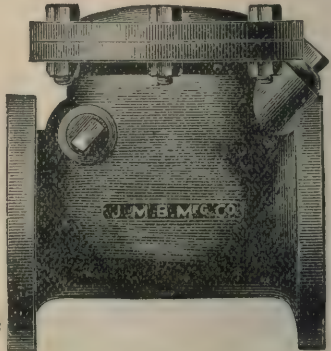
Iron Body Valves.

Fig. 219.



Screwed.

Fig. 220.



Flanged.

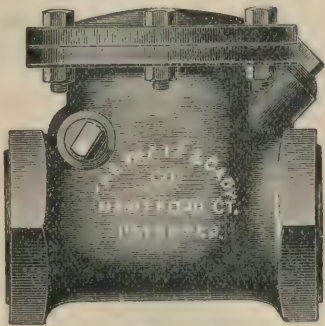
The J. M. T.
Swinging Check Valve.

BRASS MOUNTED.

Screwed and Flanged Ends.

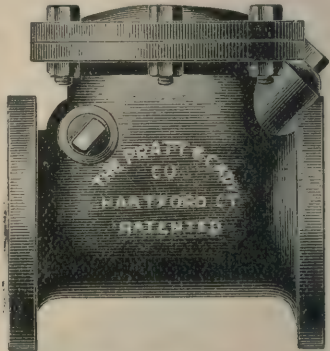
Size, Inches.		2½	3	3½	4	5	6
Fig. 219.	Screwed Ends, price, each	-	10 00	12.00	16.00	18.00	.....
" 220.	Flanged, Ends, " "	-	10.00	12.00	16.00	18.00	.....

Fig. 221.



Screwed.

Fig. 222.



Flanged.

The Pratt & Cady
Swinging Check Valves.

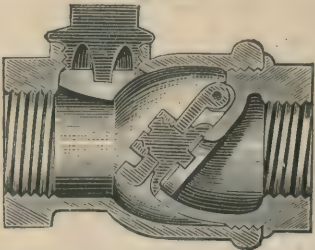
BRASS MOUNTED.

Screwed and Flanged Ends.

Size, Inches.		2½	3	3½	4	5	6	7	8	10
Fig. 221.	Screwed, price, each	10.00	12.00	16.00	18.00	25.00	32.00	41.00	50.00	65.00
" 222.	Flanged, " "	10.00	12.00	16.00	18.00	25.00	32.00	41.00	50.00	65.00

The McShane Straight-way Check Valve.

Fig. 223.



Size, Inches.		2½	3	3½	4	5	6
Screwed, price, each	- -	10.00	12.00	16.00	18.00	25.00	32.00
Flanged, " "	- -	10.00	12.00	16.00	18.00	25.00	32.00

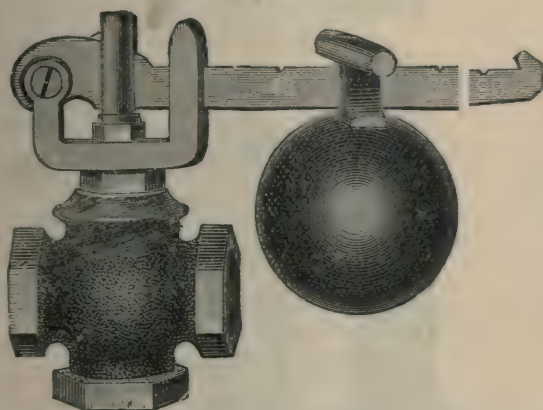
Iron Body Valves.

Safety Valves.

Cross Pattern.

SCREWED.

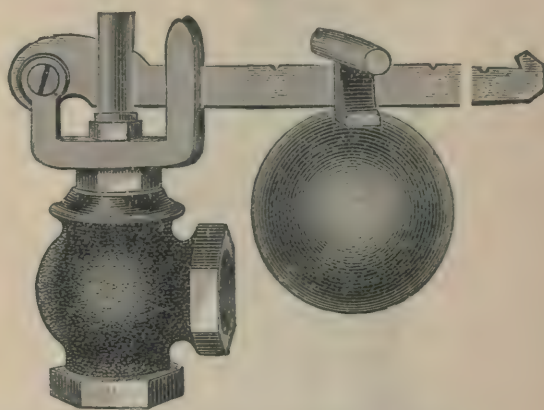
Fig. 224.



Angle Pattern.

SCREWED.

Fig. 225.



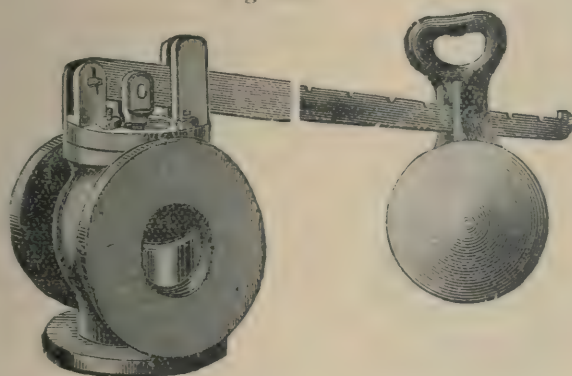
Size, inches.....	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	8
Fig. 224—Cross, each	3.50	5.00	6.00	8.00	13.00	18.00	24.00	30.00	36.00	44.00	60.00	145.00
Fig. 225—Angle, each	3.50	5.00	6.00	8.00	13.00	18.00	24.00	30.00	36.00	44.00	60.00	145.00

Safety Valves.

Cross Pattern.

FLANGED.

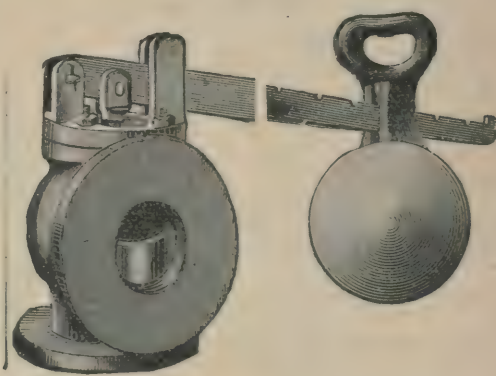
Fig. 226.



Angle Pattern.

FLANGED.

Fig. 227.



Size, inches.....	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	8
Fig. 226—Cross. Price each	10.50	16.00	22.50	29.25	36.00	42.00	50.00	67.50	154.00
Fig. 227—Angle, "	10.50	16.00	22.50	29.25	36.00	42.00	50.00	67.50	154.00

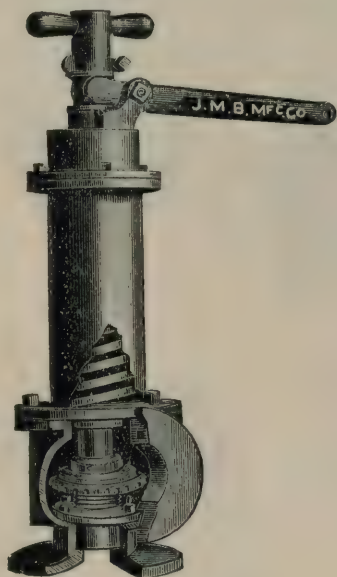
Iron Body Valves.

Safety Valves.

Marine Lock-up "Pop" Safety Valves.

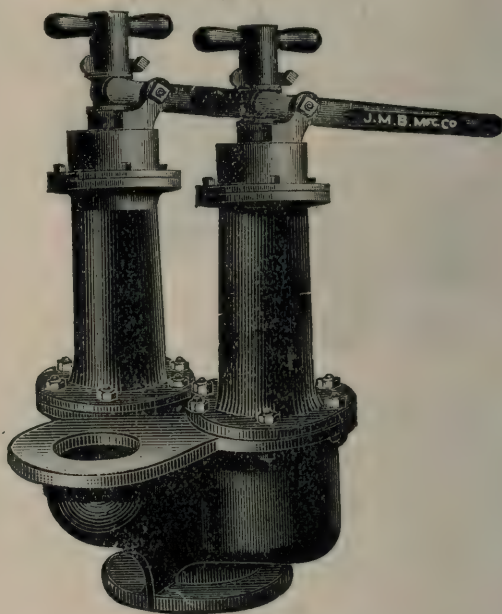
(Adopted by the Board of Steamboat Inspectors.)

Fig. 228.



SINGLE VALVE.

Fig. 229.



TWIN VALVES.

Fig. 228—SINGLE VALVES.

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$
Diameter of Inlet Flange, inches	5	5	6	7	8	9	9 $\frac{3}{4}$	11 $\frac{1}{2}$	12
Diameter of Outlet Flange, inches	Ser'wd	Ser'wd	Ser'wd	Ser'wd	7	7 $\frac{3}{4}$	8	9	9 $\frac{1}{2}$
Price each up to 140 lb	15.00	18.75	22.50	30.00	37.50	45.00	52.50	60.00	67.50
Prices each over 140 lb	18.00	22.20	27.00	36.00	45.00	54.00	63.00	72.00	81.00

Fig. 229—TWIN VALVES.

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$
Diameter of Inlet Flange, inches	6	6 $\frac{3}{4}$	7	8 $\frac{1}{2}$	10	10 $\frac{3}{4}$	12	13	14
Diameter of Outlet Flange, inches	4 $\frac{1}{4}$	5	5 $\frac{1}{2}$	6 $\frac{1}{2}$	7 $\frac{1}{2}$	9	10	10 $\frac{1}{2}$	11
Price each up to 140 lb	30.00	37.50	45.00	60.00	75.00	90.00	105.00	120.00	135.00
Price each over 140 lb	36.00	45.00	54.00	72.00	90.00	108.00	126.00	144.00	162.00

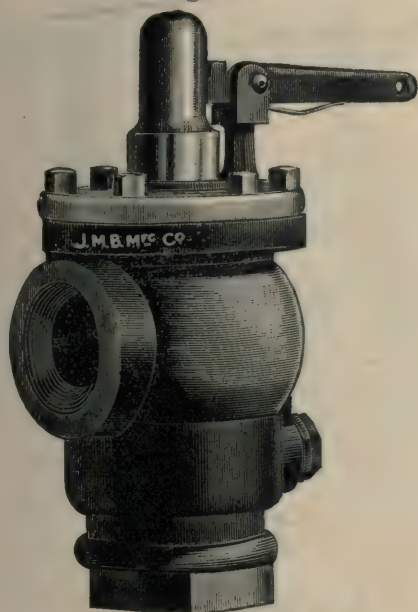
These Marine Safety Valves are tested and set to working Pressure on our High Pressure Boiler by actual steam, and they are guaranteed to open and close within a range of Three Pounds over or under the given Boiler Pressure.

Iron Body Valves.

The "Ashton" Pop Safety Valves.

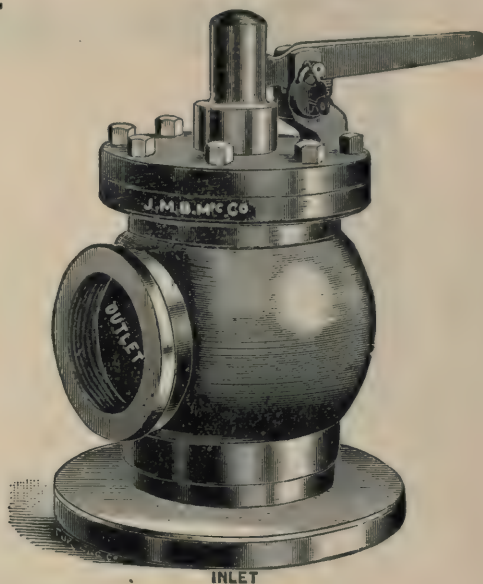
**Screwed and Flanged
Inlet
Connection.**

Fig. 230.



Screwed Inlet.

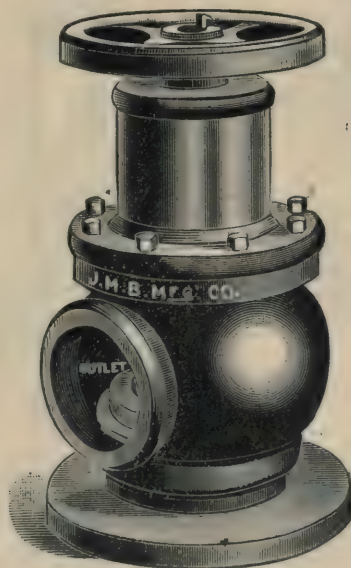
Fig. 231.



Flanged Inlet.

Size, Inches.	2	2½	3	3½	4	4½	5	6
Fig. 230, Screwed, price each	30.00	40.00	55.00	.....	70.00	85.00	.....	125.00
" 231, Flanged, "	30.00	40.00	55.00	.....	70.00	85.00	.....	125.00

Fig. 232.



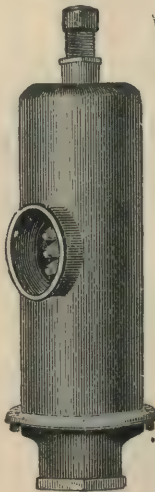
**The
"Ashton"
Relief
Valve**

**For
Water Mains,
Iron Body,
Brass Mounted.**

Size, Inches.	2	2½	3	3½	4	4½	5	6
Flanged, price each.....	40.00	60.00	75.00	.....	85.00	125.00	.....	150.00

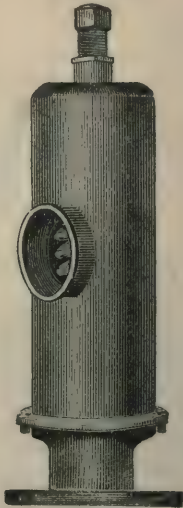
Iron Body Valves.

Fig. 233.



Screwed.

Fig. 234.



Flanged.

Relief Valves For Water Mains.

IRON BODY.

BRASS MOUNTED.

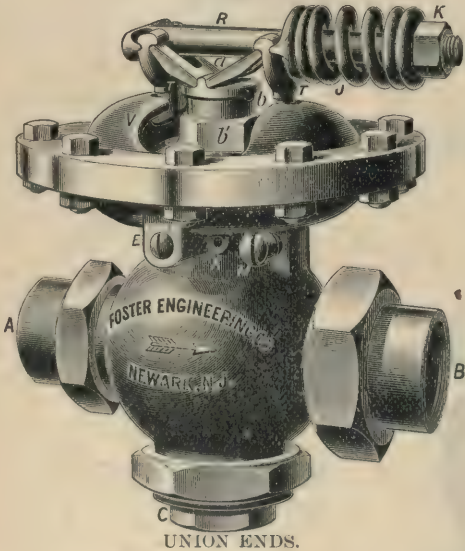
Screwed and Flanged Inlets.

Size, Inches.		2	2½	3	3½	4
Fig. 233.	Screwed Inlet, price, each	20.00	28.00	37.50	44.00	52.00
" 234.	Flanged " " "	21.00	30.00	39.00	45.50	54.00

Reducing Pressure Valves.

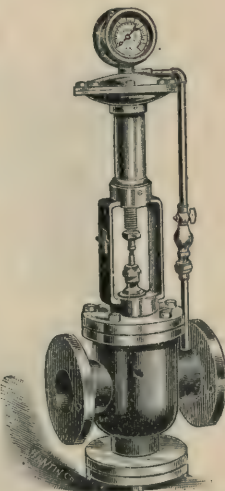
The "Foster"
Pressure Regulator.

Fig. 235.



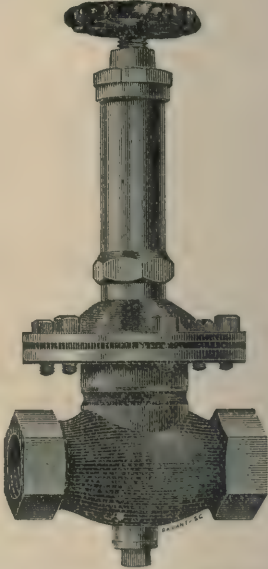
The "Fisher"
Reducing Valve.

Fig. 236.



The "Watson"
Pressure Regulator.

Fig. 237.



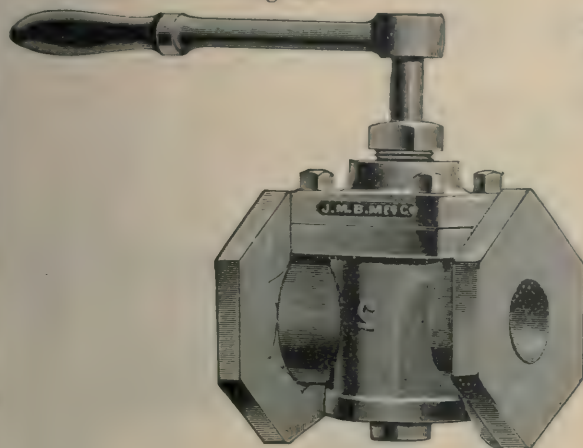
Size, Inches.		¾	1	1¼	1½	2	2½	3	3½	4	5	6
Fig. 235.	Union Ends price, each	19.00	23.00	29.00	36.00	45.00	.....	72.00	86.00	100.00	135.00	180.00
" "	Screwed, " "	18.00	22.00	28.00	35.00	44.00	57.00	72.00	86.00	100.00	135.00	180.00
" "	Flanged, " "	.....	.....	.....	37.00	46.00	60.00	75.00	90.00	105.00	140.00	185.00
" 236.	Screwed, " "	.....	25.00	30.00	35.00	45.00	.....	.....	.....	.....	.....	.....
" "	Flanged, " "	.....	.....	.....	.....	.....	60.00	75.00	.....	100.00	150.00	175.00
" 237.	Screwed, " "	.....	.....	.....	.....	38.00	55.00	70.00	.....	90.00	.....	.....
" "	Flanged, " "	.....	.....	.....	.....	.....	.....	70.00	.....	90.00	.....	175.00

Fig. 235 made up to 18 inch. Flanged, Price on Application.

Iron Body Valves.

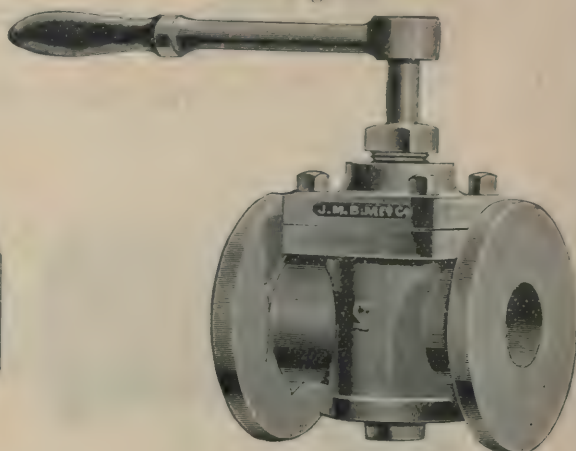
Throttle Valves.

Fig. 238.



Screwed.

Fig. 239.



Flanged.

Size, Inches,	1	1 1/4	1 1/2	2	2 1/2	3		
Fig. 238, Screwed, Price Each.	8.00	10.00	12.00	18.00	24.00	32.00	.....	.....
Fig. 239, Flanged, " "	9.00	11.25	13.50	19.25	.....	.....	.....	.....

Back Pressure Valves.

Patent Noiseless Back Pressure Valves.

Fig. 240.

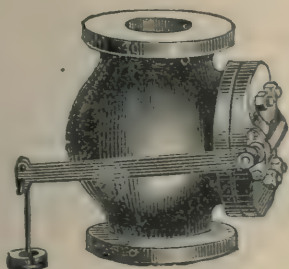
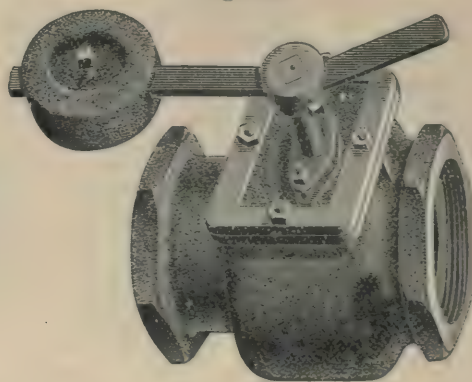


Fig. 241.



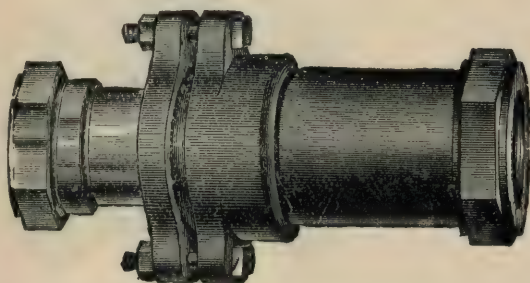
Size, Inches.	2	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8	10
Fig. 240, Screwed, Price Ea.	8.00	10.50	14.50	18.00	21.00	28.00	32.00	44.00	75.00	85.00	135.00
" " Flanged, "	.....	12.50	17.50	21.50	25.00	32.00	36.00	49.00	80.00	91.00	145.00
" 241, Screwed, "	16.00	19.00	22.00	25.00	28.00	35.00	40.00	55.00	75.00	85.00	135.00
" " Flanged, "	.....	21.50	25.00	28.50	32.00	39.00	45.00	60.00	80.00	91.00	145.00

Iron Body Valves.

Expansion Joints.

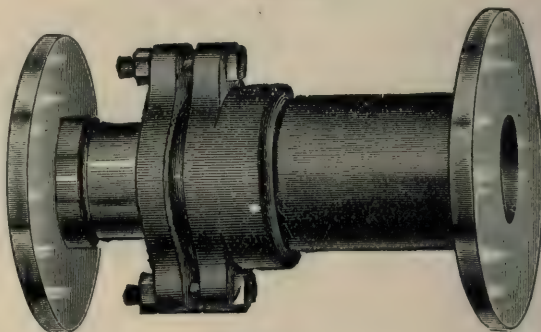
Iron Body, Brass Sleeves.

Fig. 242.



Screwed.

Fig. 243.



Flanged.

Size, Inches.	2½	3	3½	4	4½	5	6	7	8	10	12
Length of Traverse, Inches.	5¼	6½	6½	6½	6½	6½	6½	8	8	8	8
Diam. of Flanges, Inches.	7	8	8½	9	9½	10	11	13	14	16	19
Fig. 242, Screwed, price each	13.00	17.50	25.00	30.00	40.00	45.00	55.00	70.00	90.00	150.00	220.00
" 243, Flanged, " "	20.00	25.00	35.00	40.00	50.00	55.00	65.00	82.00	105.00	170.00	240.00

NOTE.—With High Pressure Steam the Expansion is 1 inch on 50 Feet of Pipe.

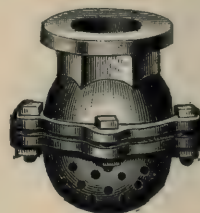
Foot Valves.

Painted and Galvanized.



Screwed.

Screwed and Flanged.



Flanged.

Fig. 244.

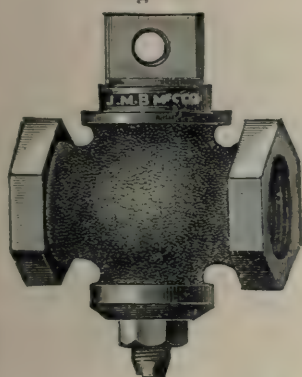
Size, Inches.	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10
Painted, Screwed, price each	.42	.42	.48	.62	.82	1.20	1.70	2.50	2.75	4.25	7.00	16.00	29.00
Galv'd., " "	.60	.60	.75	1.00	1.45	2.00	2.70	3.90	4.25	6.50	10.00	30.00	50.00
Painted, Flanged, " "							2.25	3.00	3.60	5.00	8.00	16.50	30.00
Galv'd., " "							3.50	4.50	5.50	7.50	12.00	32.00	52.00

Engineers' and Steam Fitters' Brass Work.

Steam Cocks.

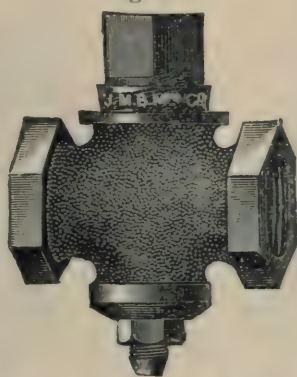
BEST STEAM METAL—SCREWED AND FLANGED.

Fig. 245.



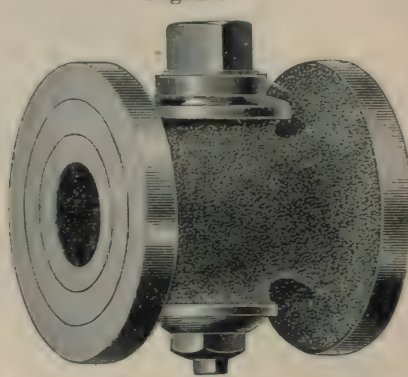
Flat Head.

Fig. 246.



Square Head.

Fig. 247.



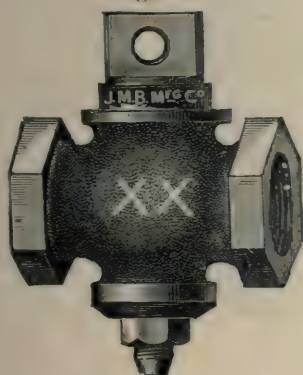
Flanged.

Size, Inches.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 245. Screwed, price, each	75	1.00	1.25	1.50	2.25	3.75	4.80	7.25	14.00	20.00	36.00	50.00
" 246. " " "	70	75	1.10	1.50	2.25	3.75	4.80	7.25	14.00	20.00	36.00	50.00
" 247. Flanged, " "					5.50	8.00	10.00	15.00	22.00	32.00	53.00	75.00
Fig. 247. Diameter of Flanges, Standard, inches	4	$4\frac{1}{2}$	5	6	7	8	$8\frac{1}{2}$	9				

Double, Extra Heavy, Steam Cocks.

BEST STEAM METAL—SCREWED AND FLANGED.

Fig. 248.



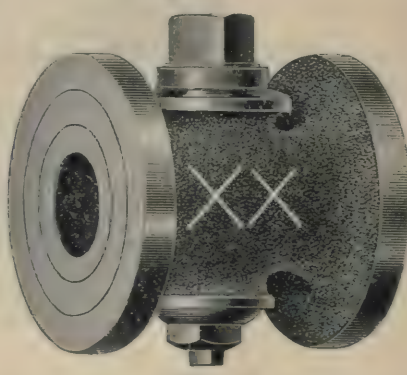
Flat Head.

Fig. 249.



Square Head.

Fig. 250.



Flanged.

Size, Inches.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 248. Screwed, price, each	2.65	2.25	3.40	5.75	7.25	11.00	21.00	30.00	54.00	75.00
" 249. " " "	1.65	2.25	3.40	5.75	7.25	11.00	21.00	30.00	54.00	75.00
" 250. Flanged, " "			8.25	12.00	15.00	22.50	33.00	48.00	80.00	112.00
Fig. 250. Diameter of Flanges, inches	4	$4\frac{1}{2}$	5	6	7	8	$8\frac{1}{2}$	9		

Flanged Steam Cocks with Flanges larger than standard will be charged extra.

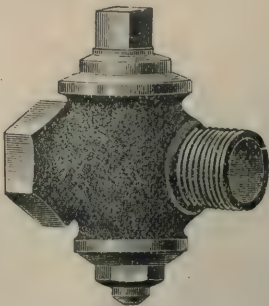
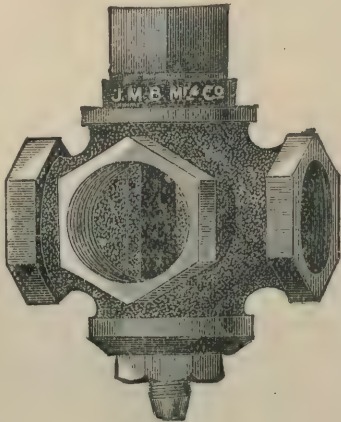
Steam Cocks.

Three Way.

Male and Female.

Fig. 251.

Fig. 252.



SCREWED.

SCREWED.

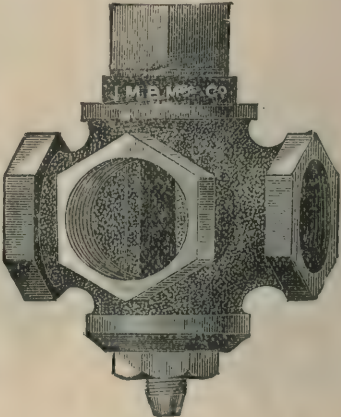
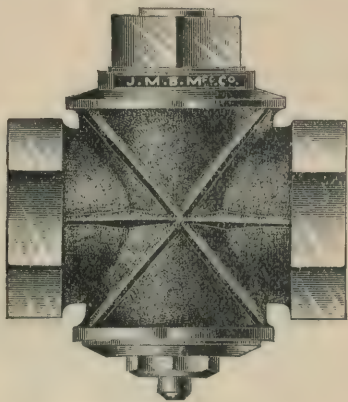
Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 251. Three Way	2.50	3.00	3.75	5.75	7.75	11.00	18.00	26.00	45.00	70.00	
" 251. Three way XX, heavy	2.50	3.40	5.10	8.25	10.50	15.00	27.00	40.00	67.50	97.50	
" 252. Male and Female	1.85	1.20	1.70	2.55	4.15	5.40	8.00	15.50	22.00	....	....
" 252. Male, both ends .....	.95	1.30	1.90	2.85	4.55	6.00	8.75	....	....	....	....
" 252. Male & Female	2.00	2.50	3.00	5.35	6.75	9.50					

Roundway Steam Cocks.

Best Steam Metal. Screwed and Flanged.

Fig. 253.

Fig. 254.



SQUARE HEAD.

THREE WAY.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 253—Screwed. Price each	1.65	2.25	3.40	5.75	7.25	11.00	21.00	30.00
" 253—Flanged. " " .....	....	....	5.65	10.00	12.45	18.75	29.00	42.00
" 254—Screwed. " "	2.50	3.40	5.10	8.25	10.50	15.00	27.00	39.00
" 253—Diameter of Flanges, inches .....	....	....	4	$4\frac{1}{2}$	5	6	7	8

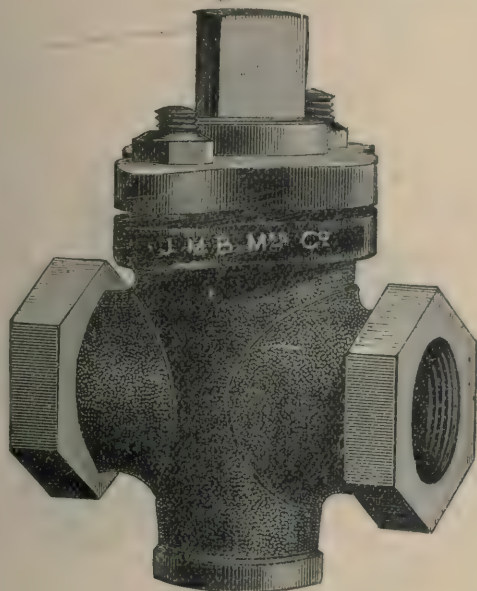
Flanged Steam Cocks with Flanges larger than standard will be charged extra.

Marine Stop Cocks, for Steam and Water.

Flanged Top with Stuffing Gland and Solid Bottom.

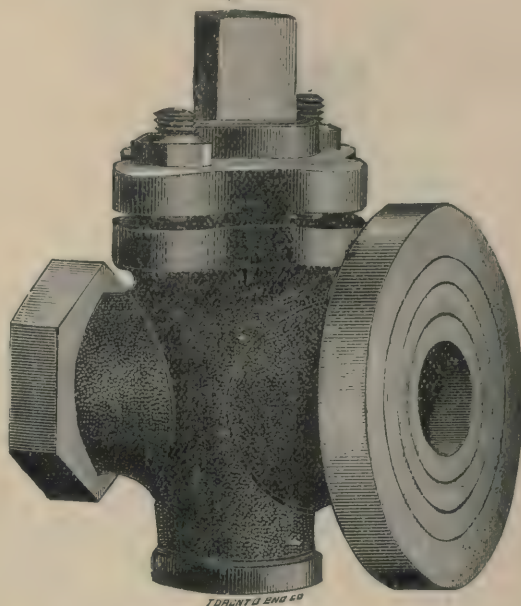
SCREWED ENDS, SCREWED AND FLANGED, AND FLANGED.

Fig. 255.



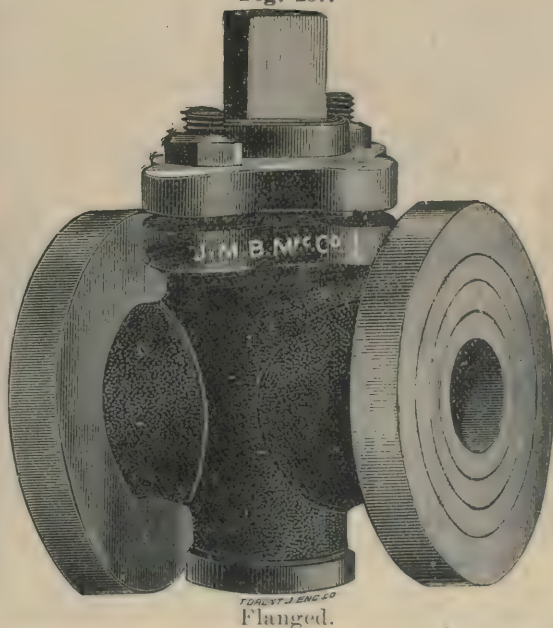
Screwed.

Fig. 256.



Screwed and Flanged.

Fig. 257.



Flanged.

Size, Inches.....	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Length. End to End, Screwed Ends, Inches.....	$3\frac{1}{2}$	4	5	$5\frac{1}{2}$	$6\frac{1}{4}$	$8\frac{1}{4}$	.....
Length, Face to Face, Flanged Ends, Inches.....	.....	4	5	$5\frac{1}{2}$	$6\frac{1}{4}$	$8\frac{1}{4}$	.....
Diameter of Flanges, Inches.....	.....	$4\frac{1}{2}$	5	6	7	$7\frac{1}{2}$	$8\frac{1}{2}$
Fig. 255, Screwed, Price each.....	3.50	5.50	8.50	11.25	18.75	27.00	47.00
" 256, Screwed and Flanged, ".....	.....	7.75	11.00	15.50	24.50	32.50	56.00
" 257, Flanged, ".....	.....	10.00	13.50	19.75	30.25	38.00	65.00

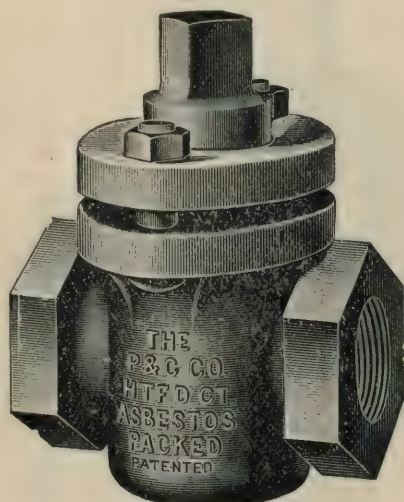
Marine Cocks with Flanges of larger Diameter than the above, and Bolts on Bottom to raise plug, will be charged extra.

Steam Cocks. Asbestos Packed.

BEST STEAM METAL.

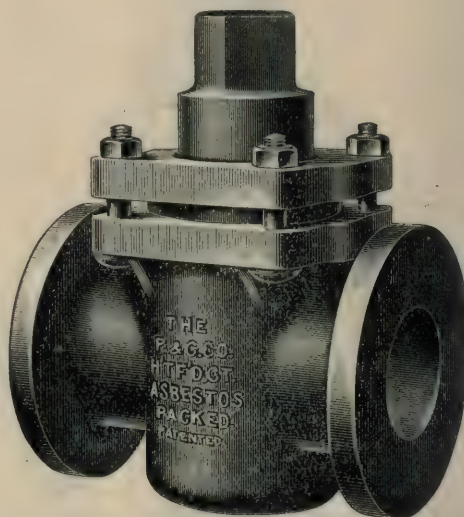
SCREWED AND FLANGED.

Fig. 258.



Screwed.

Fig. 259.



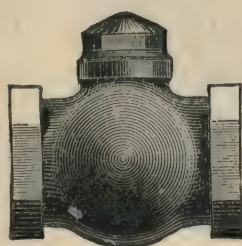
Flanged.

Size, Inches.	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Fig. 258, Screwed Ends, Price Each.	4.20	5.60	8.00	10.75	.....	.....
" 259, Flanged Ends, " "	.....	.....	.....	15.00	20.00	30.00

Check Valves. Standard.

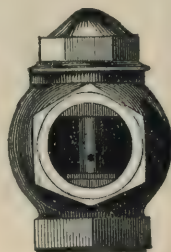
STEAM METAL. SCREWED AND FLANGED.

Fig. 260.



Horizontal Check Valve.

Fig. 261.



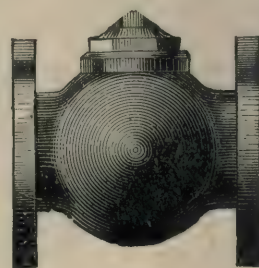
Angle Check Valve.

Fig. 262.



Vertical Check Valve.

Fig. 263.



Flanged

Size. Inches.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
Fig. 260, Rough, Price Each.	50	60	85	1.15	1.55	2.30	3.25	5.20	10.00	14.00	27.00	36.00
" " Finished, "	80	1.00	1.25	1.60	2.05	2.90	4.00	6.45	11.75	16.50	.....	.....
" 261 Rough, "	50	60	85	1.15	1.55	2.30	3.25	5.20	10.00	14.00	27.00	36.00
" " Finished, "	80	1.00	1.25	1.60	2.05	2.90	4.00	6.45	11.00	16.50	.....	.....
" 262 Rough, "	50	60	85	1.15	1.55	2.30	3.25	5.20	10.00	14.00	27.00	36.00
" " Finished, "	80	1.00	1.25	1.60	2.05	2.90	4.00	6.45	11.75	16.50	.....	.....
" 263 Rough, "	.....	.....	.....	.....	4.50	6.50	8.50	13.00	19.00	28.00	42.00	60.00
" " Diam. of Flanges, Inches.	.....	.....	.....	.....	4	4 $\frac{1}{2}$	5	6	7	8	8 $\frac{1}{2}$	9

Check Valves.

Double Extra Heavy—Steam Metal. Screwed and Flanged.

Fig. 264.



SCREWED.

Fig. 265.

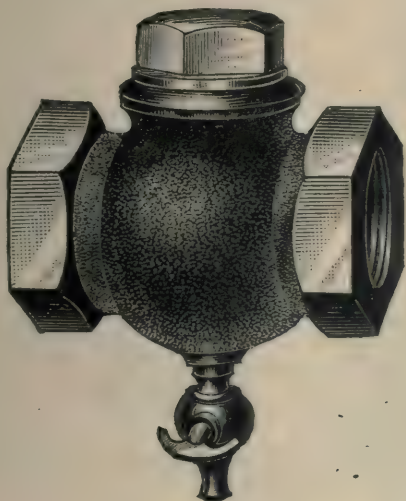


FLANGED.

Size, inches.....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 264—Screwed. Price each....	.65	.75	1.15	1.60	2.00	3.25	5.25	6.75	12.50	17.00
" 265—Flanged. " " ....	.....	.....	.....	.....	6.50	8.85	12.00	17.75	23.50	34.00
" 265—Diameter of Flanges, in..	.....	.....	.....	.....	4	$4\frac{1}{2}$	5	$6\frac{1}{2}$	7	8

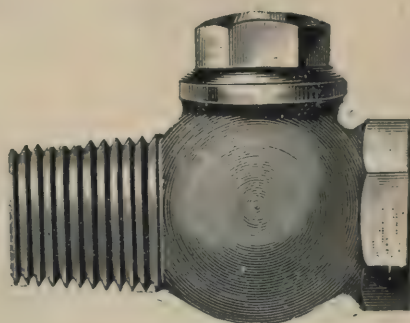
Check Valve with Drip Cock.

Fig. 266.



Pump Check Valves, Male and Female.

Fig. 267.



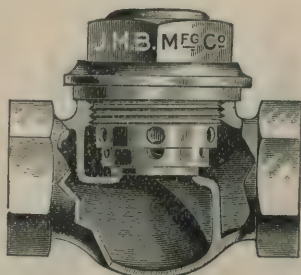
Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 266—Check Valve with Drip Cock. Price each	1.85	2.15	2.55	3.30	4.25	6.20
" 267—Male and Female. Price each.....	1.00	1.40	1.90	2.85	4.35	6.55

Check Valves.

The J.M.T. "Cushioned" Check Valve.

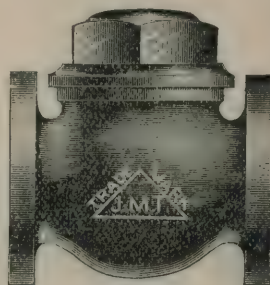
Steam Metal. Screwed and Flanged.

Fig. 268.



SCREWED.

Fig. 269.

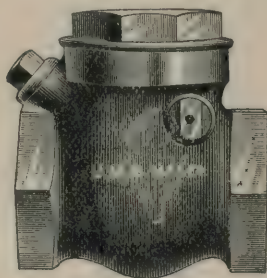


FLANGED.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 268—Screwed. Price each	1.30	1.90	2.60	3.60	5.00	7.50
" 269—Flanged. " " .. ..	.....	.....	5.50	7.80	9.80	15.00
" 269—Diameter of Flanges, inches ..	.....	.....	4	$4\frac{1}{2}$	5	$6\frac{1}{2}$

Fig. 270.

The J. M. T.

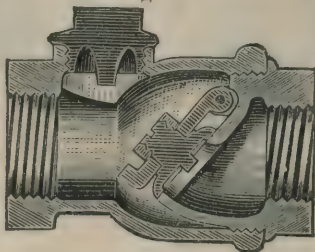


**Straightway
Swinging Check Valve.**

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Screwed. Price each	1.25	1.30	1.75	2.25	3.25	4.25	6.25

Fig. 271.

The McShane



**Straightway
Swinging Check Valve.**

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Screwed. Price each	1.25	1.30	1.75	2.25	3.25	4.25	6.25	11.50	16.00

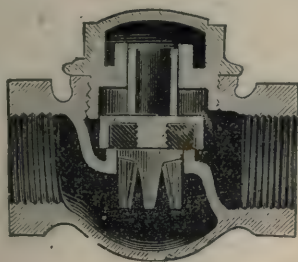
NOTE.—The J. M. T. Straightway Swinging Check Valves is the same pattern as the Pratt & Cady Patent, so long and favorably known.

Check Valves.

STEAM METAL.

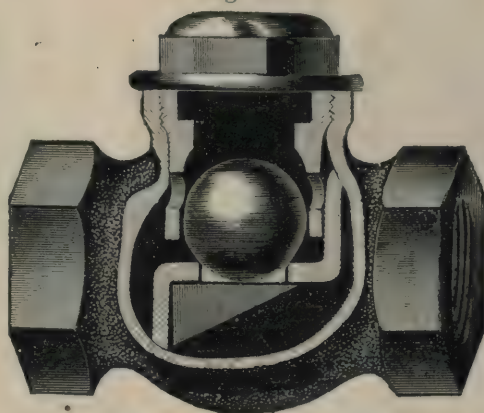
The "Jenkins" Patent.

Fig. 272.



Ball Check Valve.

Fig. 273.

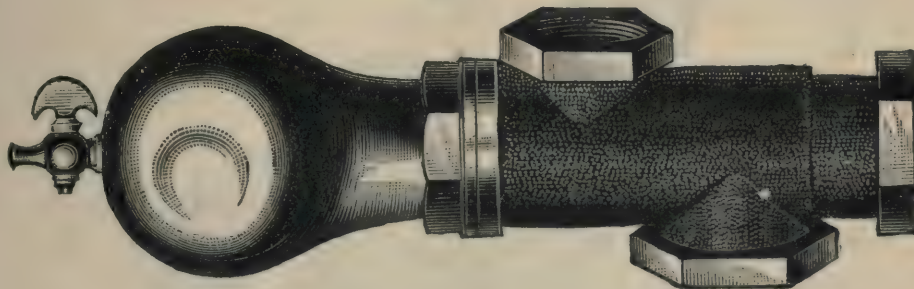


Size, Inches.		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 272.	Screwed, price, each	1.20	1.30	1.90	2.60	3.60	5.00	7.50
" 273.	Brass Body " "	....	1.60	2.30	.....	.....	.....	.....
" 273.	Iron Body " "	....	.....	.....	3.10	4.00	6.20	9.40
" "	Balls only, " "	....	.60	.60	.64	.80	1.20	2.50

Pump Valves with Air Chamber.

STEAM METAL.

Fig. 274.



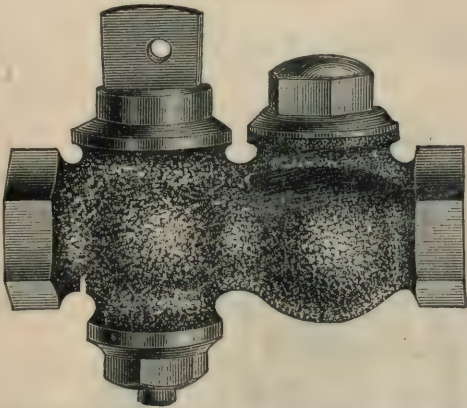
Size, Inches.		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
With Air Cock	price, each	3.00	4.00	5.50	7.75	11.00
Without Air Cock	" "	2.50	3.50	5.00	7.25	10.50

Combined Cock and Check Valves.

STEAM METAL.

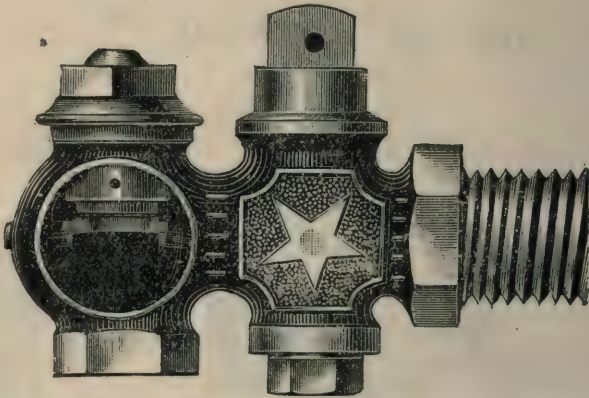
Horizontal Check Valve.

Fig. 275—FEMALE.



Angle Check Valve.

Fig. 276—MALE AND FEMALE.

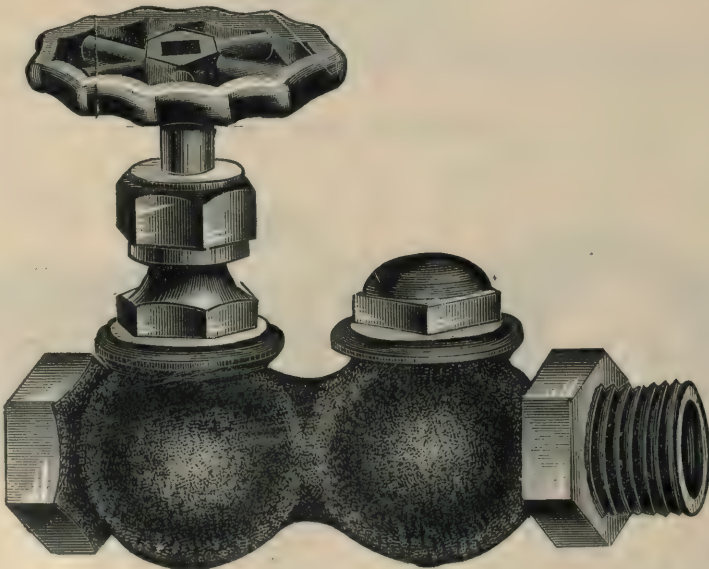


	Size, inches.	$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 275—Horizontal Check Valve. Price each		3.50	4.50	6.00
Fig. 276—Angle " " " "		3.50	4.50	6.00

Combined Globe and Check Valves.

STEAM METAL.

Fig. 277.

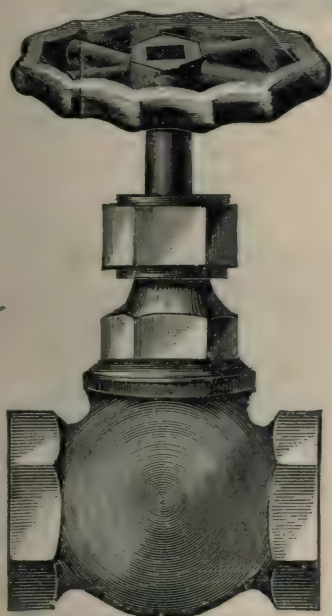


	Size, inches.	$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 277—Price each		3.50	4.50	6.00

Globe Valves.

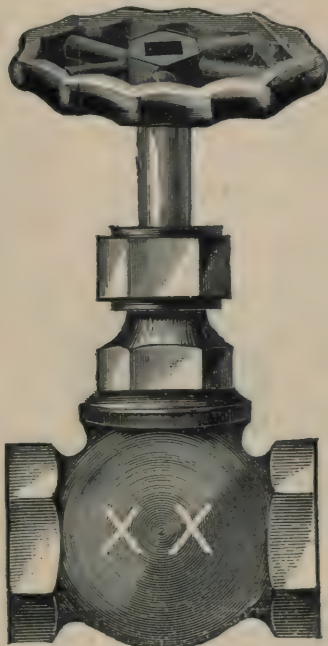
Best Steam Metal.

Fig. 278.



STANDARD.

Fig. 279.



EXTRA HEAVY.

Fig. 280.



WITH SQUARE ON SPINDLE.

Size, Inches.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 278. Standard, price, each	.60	.75	1.00	1.35	1.80	2.80	3.90	5.90	11.25	16.00	30.00	40.00
" 279. Extra Heavy, " "	.85	1.00	1.25	1.80	2.50	3.75	5.25	7.75	14.00	19.00	36.00	47.00
" 280. Standard, " "	.55	.70	.90	1.25	1.70	2.70	3.80	5.80	.....	.....	.....	.....
" " Extra Heavy, " "	.80	.95	1.15	1.70	2.40	3.65	5.15	7.65	.....	.....	.....	.....

Globe Valves, Flanged.

Steam Metal.

Fig. 281.



Size, Inches.	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Standard.....price, each	5.00	7.00	9.00	14.00	20.00	30.00	45.00	65.00
Extra Heavy....." "	7.00	9.35	12.00	18.75	25.00	36.00	54.00	78.00
Diameter of Flanges, inches.....	4	$4\frac{1}{2}$	5	6	7	8	$8\frac{1}{2}$	9

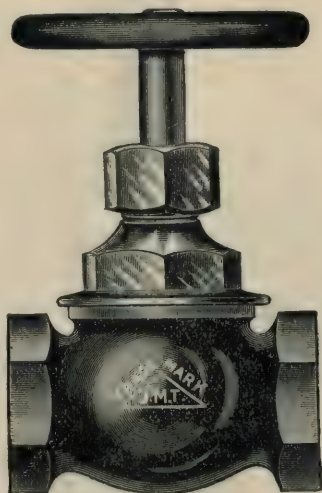
Globe Valves.

The J. M. T. Globe Valves With Jenkins' Discs.

Fig. 282,

TRADE MARK REGISTERED.

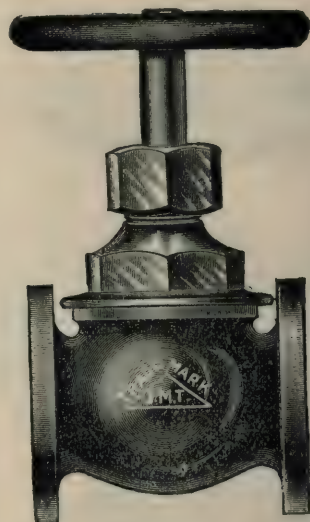
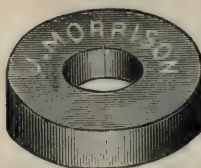
Fig. 283.



Screwed.

Jenkins' Discs.

Fig. 284,



Flanged.

Size, Inches.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 282. Screwed.....price, each	1.10	1.25	1.60	2.20	2.80	4.00	5.50	8.00	15.75	22.00
" 283. Flanged....." "	.....	.....	.....	.....	6.00	9.00	11.00	16.50	25.00	34.00
" 284. Jenkin's Discs....." "	.06	.08	.08	.10	.12	.18	.24	.35	.45	.60

The J. M. T. Globe Valve With Special Metallic Disc.

Fig. 285.

For High Steam Pressure.

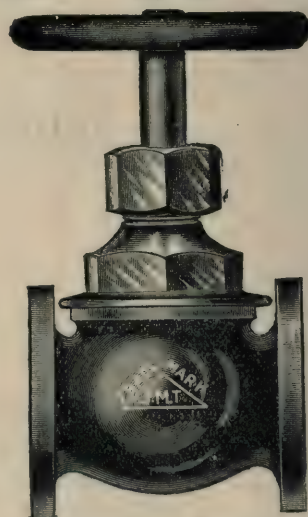
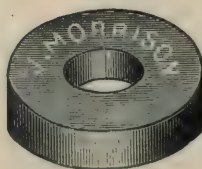
Fig. 286.



Screwed

Metallic Discs.

Fig. 287.



Flanged

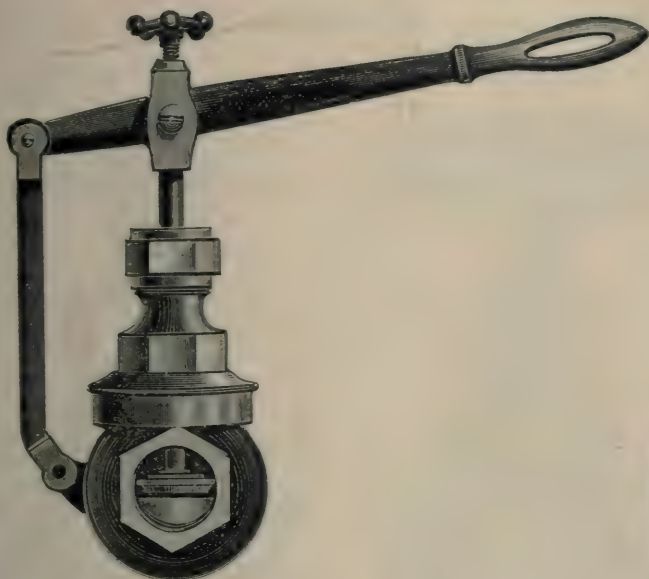
Size, Inches.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 285. Screwed.....price, each	1.20	1.35	1.75	2.40	3.00	4.40	6.00	8.75	17.00	24.00
" 286. Flanged....." "	.....	.....	.....	.....	6.20	9.40	11.50	17.25	26.25	36.00
" 287. Metallic Discs....." "	.07	.09	.10	.12	.15	.22	.30	.45	.60	.80

The Special Metallic Disc Valve is the Best and only Reliable Globe Valve for High Pressure Steam.

Globe Valves.

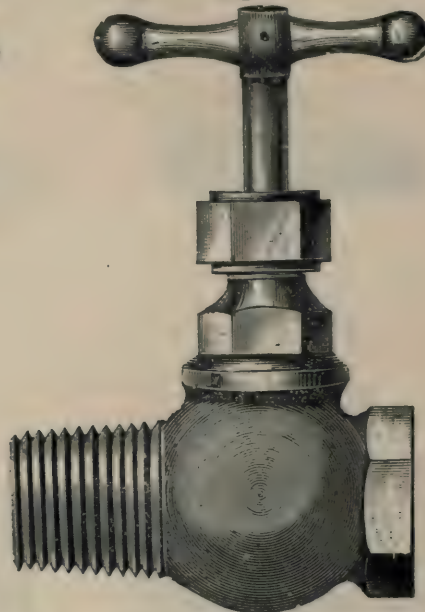
With Sliding Stem and Lever

Fig. 288.



Male and Female.

Fig. 289.



Size, Inches.	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Fig. 288, Sliding Stem, price each.....			2.55	3.20	4.45	5.70	7.90	13.50	18.50
" 289, T Handle, ".....	.85	1.15	1.60	2.15	3.35	5.00	7.25	13.00	18.50
" 289, Wheel Handle, ".....	.85	1.15	1.60	2.15	3.35	5.00	7.25	13.00	18.50

Lock Shield Globe Valves.

Fig. 290.



Fig. 291.



Size, Inches.	Fig. 290. Standard.				Fig. 291. J. M. T.			
	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Rough Body, Finished Mountings, price each	1.10	1.35	1.60	2.25	1.60	2.00	2.50	3.20
" Plated " " " " " "	1.20	1.55	1.85	2.50	1.85	2.25	2.70	3.50
" Plated all over " " " " " "	1.30	1.65	1.95	2.65	2.00	2.50	2.85	3.65
Finished and Plated " " " " " "	1.60	2.15	2.50	3.25	2.40	3.00	3.40	4.25

Globe Valves.

With Wood and Brass Wheels. Steam Metal.

Fig. 292.

Wood Wheel,

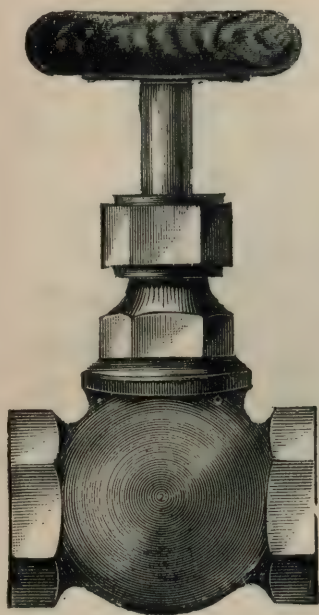


Fig. 293.

Brass Wheel.

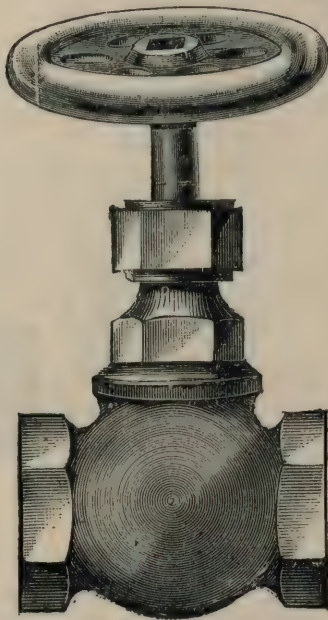


Fig. 294.

Square on Spindle.

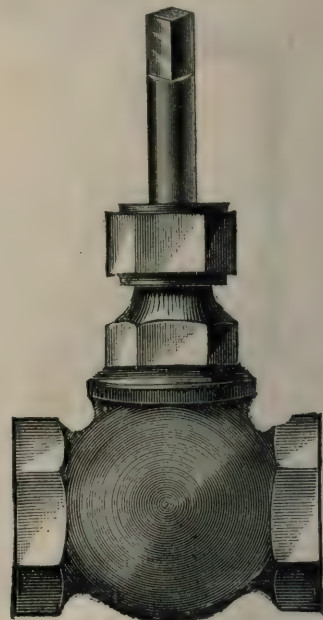


Fig. 292—with Wood Wheel.

Size, inches		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	1.35	1.60	2.25	3.25	4.50	7.00
" " Plated	"	1.55	1.85	2.50	3.50	4.80	7.50
" " Plated all over.	"	1.65	1.95	2.65	3.70	5.00	7.75
Finished all over.	"	1.85	2.15	2.85	4.00	5.50	8.50
" and Plated all over.	"	2.15	2.50	3.25	4.45	6.00	9.25

Fig. 293—with Brass Wheel.

Size, inches		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Wheel & Mountings.	Price each	1.75	2.20	2.90	4.25	6.00	8.50
" " Plated	"	2.05	2.55	3.25	4.65	6.45	9.15
" " Plated all over.	"	2.15	2.65	3.40	4.85	6.65	9.40
Finished all over.	"	2.25	2.75	3.50	5.00	7.00	10.00
" and Plated all over.	"	2.65	3.20	4.00	5.60	7.65	10.90

Fig. 294—with Square on Spindle.

Size, inches		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	1.15	1.40	2.00	3.00	4.20	6.60
" " Plated	"	1.35	1.65	2.25	3.25	4.50	7.10
" " Plated all over.	"	1.45	1.75	2.40	3.45	4.70	7.35
Finished all over.	"	1.65	1.95	2.60	3.75	5.20	8.20
" and Plated all over.	"	1.95	2.30	3.00	4.20	5.70	8.85

The J. M. T. Globe Valves.

With Wood and Brass Wheels.

Fig. 295.



Wood Wheel.

Fig. 296.



Brass Wheel.

Fig. 297.



Square on Spindle.

Fig. 295. **Wood Wheel.**

Size, Inches.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Fin'd. Mountings, price each	2.00	2.50	3.20	4.50	6.25	10.50
" " Plated " "	2.25	2.70	3.50	4.75	6.50	10.75
" " Plated all over, " "	2.50	2.85	3.65	4.90	6.75	11.00
Finished all over " "	2.50	3.00	3.75	5.25	7.25	11.75
" and Plated all over, " "	2.85	3.10	4.00	5.40	7.75	12.25

Fig. 296. **Brass Wheel.**

Size, Inches.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Fin'd. Mountings, price each	2.40	3.10	4.00	5.50	7.75	12.00
" " Plated " "	2.65	3.35	4.35	5.85	8.25	12.50
" " Plated all over, " "	2.90	3.60	4.60	6.10	8.50	12.75
Finished all over, " "	2.90	3.60	4.60	6.25	8.75	13.25
" and Plated all over " "	3.25	3.75	4.90	6.60	9.25	13.75

Fig. 297. **Square on Spindle.**

Size, Inches.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Fin'd. Mountings, price each	1.80	2.30	2.95	4.25	5.95	10.10
" " Plated " "	2.05	2.50	3.25	4.50	6.20	10.35
" " Plated all over " "	2.30	2.65	3.40	4.65	6.45	10.60
Finished all over " "	2.30	2.80	3.50	5.00	6.95	11.35
" and Plated all over " "	2.65	2.90	3.75	5.15	7.45	11.85

Angle Valves. Steam Metal.

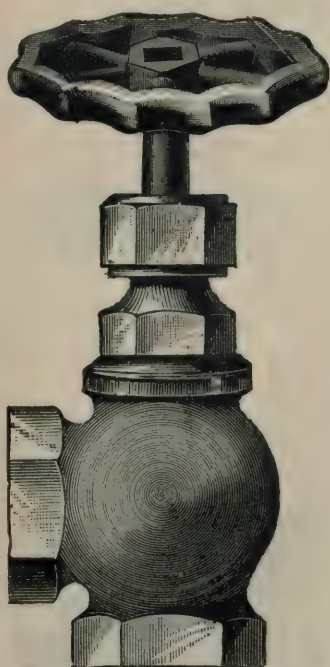


Fig. 298—Standard.



Fig. 299—Extra Heavy.

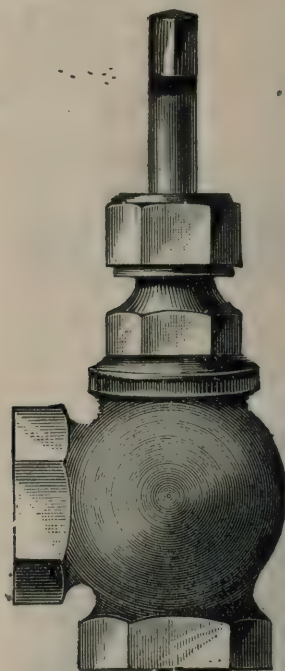
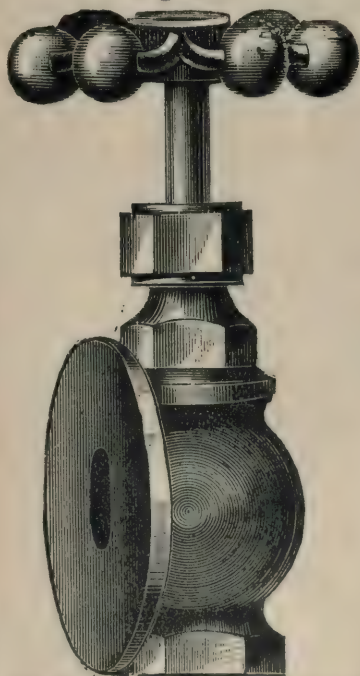


Fig. 300—Square on Spindle.

Size, inches.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 298—Standard ...	.60	.75	1.00	1.35	1.80	2.80	3.90	5.90	11.25	16.00	30.00	40.00
" 299—Extra heavy ...	.85	1.00	1.25	1.80	2.50	3.75	5.25	7.75	14.00	19.00	.....	.....
" 300—Standard ...	.55	.70	.90	1.25	1.70	2.70	3.80	5.80	.....	.....	.....	.....
" 300—Extra heavy ...	.80	.95	1.15	1.70	2.40	3.65	5.15	7.65	.....	.....	.....	.....

Fig. 301.

Fig. 302.



Angle Valves, Flanged.

Steam Metal.

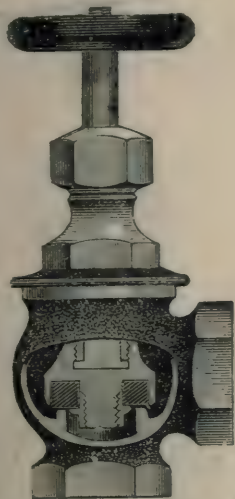


Size, inches.	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 301—Standard. Price each	4.00	5.50	7.00	10.00	.....	30.00	45.00	65.00
" 302—Standard. " "	5.00	7.00	9.00	14.00	20.00	36.00	54.00	78.00
" 302—Extra heavy. " "	7.00	9.35	12.00	18.75	25.00	36.00	54.00	78.00
Diameter of Flanges, inches.	4	$4\frac{1}{2}$	5	6	7	8	$8\frac{1}{2}$	9

Angle Valves.

The J.M.T. Angle Valves with Jenkins' Disc.

Fig. 303.



SCREWED.

Fig. 304.



FLANGED.

Jenkins' Discs.

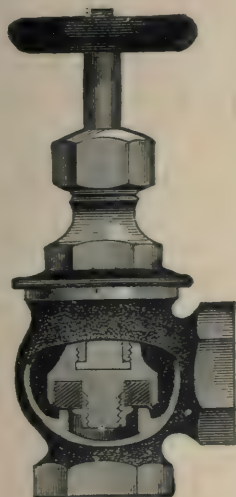
Fig. 305.



Size, Inches:	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 303, Screwed, price each....	1.10	1.25	1.60	2.20	2.80	4.00	5.50	8.00	15.75	22.00
" 304, Flanged, "					6.00	9.00	11.00	16.50	25.00	34.00
" 305, Jenkins' Discs, price each	.06	.08	.08	.10	.12	.18	.24	.35	.45	.60
Diam. of Flanges, Inches.....					4	$4\frac{1}{2}$	5	6	7	8

The J.M.T. Angle Valve With Special Metallic Disc. For High Pressure Steam.

Fig. 306.



SCREWED.

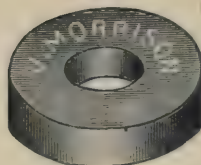
Fig. 307.



FLANGED.

Metallic Discs.

Fig. 308.



Size, Inches.	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 306, Screwed, price each.....	1.20	1.35	1.75	2.40	3.00	4.40	6.00	8.75	17.00	24.00
" 307, Flanged, "					6.20	9.40	11.50	17.25	26.25	36.00
" 308, Metallic Disc " .....	.07	.09	.10	.12	.15	.22	.30	.45	.60	.80

Radiator Valves.
Standard.

Fig. 309.



With Wood Wheel.

Fig. 310.



With Brass Wheel.

Fig. 311.



With Square on Spindle.

Fig. 309. with Wood Wheel.

Size, inches.		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	1.35	1.60	2.25	3.25	4.50	7.00
" " Plated	" "	1.55	1.85	2.50	3.50	4.80	7.50
" " Plated all over.	" "	1.65	1.95	2.65	3.70	5.00	7.75
Finished all over.	" "	1.85	2.15	2.85	4.00	5.50	8.75
" and Plated all over.	" "	2.15	2.50	3.25	4.45	6.00	9.25

Fig. 310. with Brass Wheel.

Size, inches.		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Wheel & Mountings.	Price each	1.75	2.20	2.90	4.25	6.00	8.50
" " Plated	" "	2.05	2.55	3.25	4.65	6.45	9.15
" " Plated all over.	" "	2.15	2.65	3.40	4.85	6.65	9.40
Finished and Polished all over.	" "	2.25	2.75	3.50	5.00	7.00	10.00
" and Plated all over.	" "	2.65	3.20	4.00	5.60	7.65	10.90

Fig. 311. with Square on Spindle.

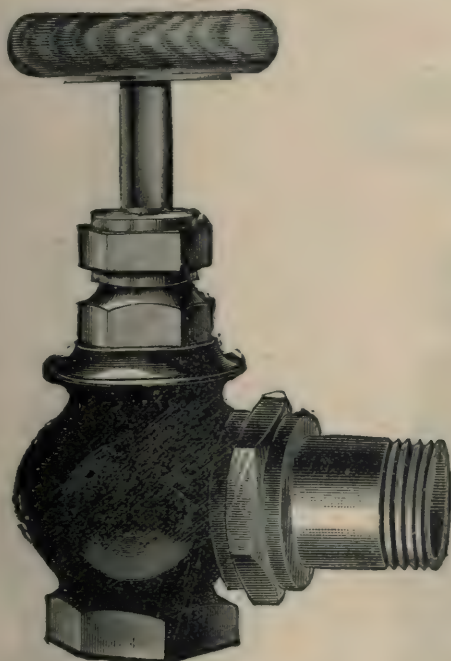
Size, inches.		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	1.15	1.40	2.00	3.00	4.20	6.60
" " Plated	" "	1.35	1.65	2.25	3.25	4.50	7.10
" " Plated all over.	" "	1.45	1.75	2.40	3.45	4.70	7.35
Finished all over.	" "	1.65	1.95	2.60	3.75	5.20	8.20
" and Plated all over.	" "	1.95	2.30	3.00	4.20	5.70	8.85

NOTE.—All Radiator Valves are Tapped Right Hand both ends, unless otherwise ordered.

Radiator Valves.

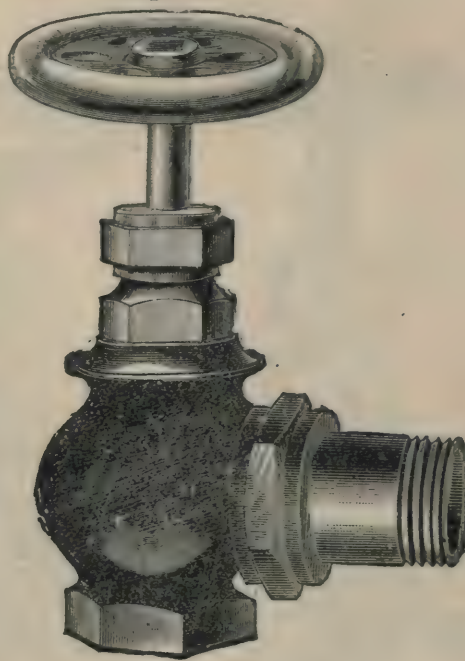
Standard—With Union.

Fig. 312.



With Wood Wheel.

Fig. 313.



With Brass Wheel.

Fig. 312. With Wood Wheel.

Size, inches.		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	2.05	2.45	3.25	4.50	6.50	10.00
“ “ Plated “	“ “	2.30	2.75	3.50	4.85	6.90	10.50
“ “ Plated all over.	“ “	2.40	2.85	3.65	5.05	7.10	10.85
Finished and Polished all over.	“ “	2.60	3.05	3.90	5.35	7.60	11.75
“ and Plated all over.	“ “	2.90	3.40	4.30	5.80	8.10	12.35

Fig. 313. With Brass Wheel.

Size, inches.		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	2.45	3.05	3.90	5.50	8.00	11.50
“ “ Plated “	“ “	2.70	3.35	4.15	5.85	8.40	12.00
“ “ Plated all over.	“ “	2.80	3.45	4.30	6.05	8.60	12.35
Finished and Polished all over.	“ “	3.00	3.65	4.55	6.35	9.10	13.25
“ and Plated all over.	“ “	3.30	4.00	4.95	6.80	9.60	13.85

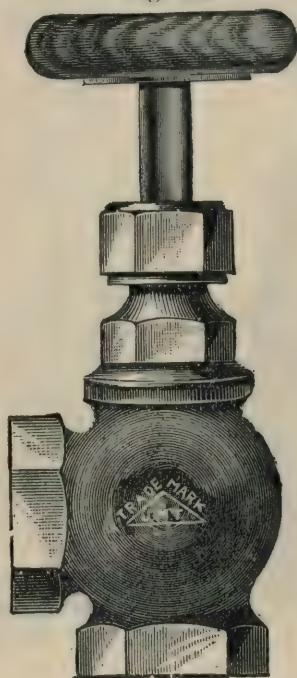
Fig. 312. With Square on Spindle.

Size, inches.		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Bough Body, Finished Mountings.	Price each	1.85	2.20	3.00	4.25	7.70	11.10
“ “ Plated Mountings.	“ “	2.50	3.15	3.90	5.60	8.10	11.60
“ “ Plated all over.	“ “	2.60	3.20	4.05	5.80	8.30	11.95
Finished and Polished all over.	“ “	2.80	3.45	4.30	6.10	8.80	12.85
“ and Plated all over.	“ “	3.10	3.80	4.70	6.55	9.30	13.45

Radiator Valves.

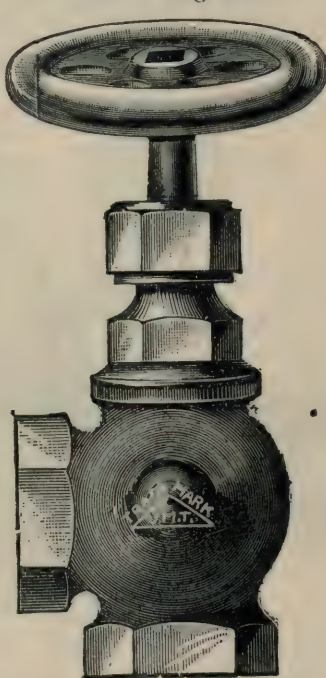
The J. M. T. Radiator Valves, With Jenkin's Discs.

Fig. 314.



With Wood Wheel.

Fig. 315.



With Brass Wheel.

Fig. 316.



With Sq. on Spindle.

Fig. 314. With Wood Wheel.

Size, Inches.		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each.	2.00	2.50	3.20	4.50	6.25	10.50
" " Plated "	" "	2.25	2.70	3.50	4.75	6.50	10.75
" " Plated all over.	" "	2.50	2.85	3.65	4.90	6.75	11.00
Finished and Polished " "	" "	3.00	3.40	4.25	5.65	7.75	12.50

Fig. 315. With Brass Wheel.

Size, Inches.		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each.	2.40	3.10	3.85	5.50	7.75	12.00
" " Plated "	" "	2.65	3.30	4.15	5.75	8.00	12.25
" " Plated all over	" "	2.90	3.45	4.30	5.90	8.25	12.50
Finished and Plated " "	" "	3.40	4.00	4.90	6.65	9.25	14.00

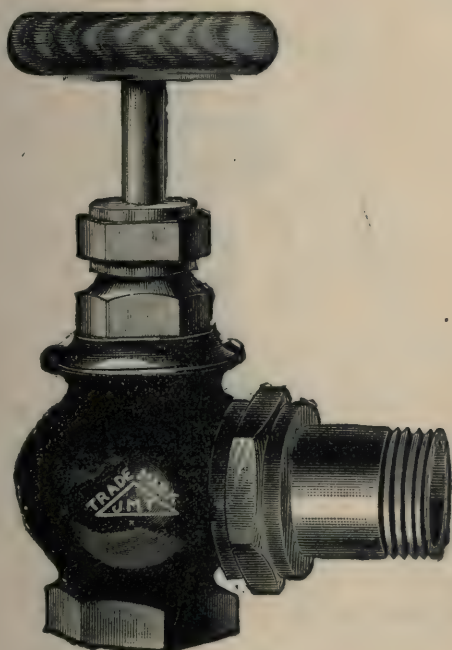
Fig. 316. With Square on Spindle.

Size, Inches.		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each.	1.80	2.30	2.95	4.25	5.95	10.10
" " Plated "	" "	2.05	2.50	3.25	4.50	6.20	10.35
" " Plated all over	" "	2.30	2.65	3.40	4.65	6.45	10.60
Finished and Plated " "	" "	2.80	3.20	4.00	5.40	7.45	12.10

Radiator Valves.

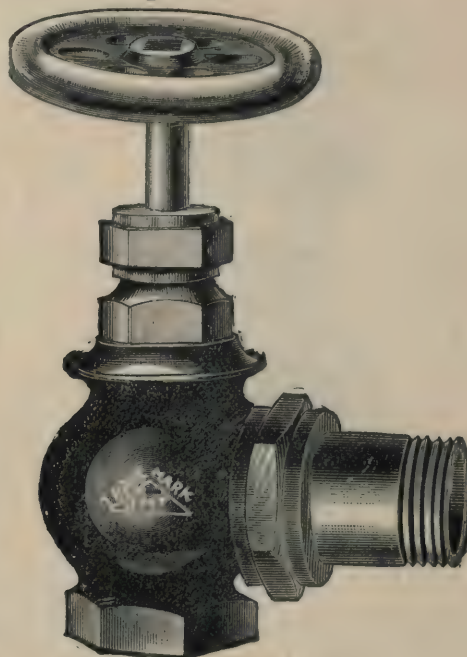
The J.M.T. Radiator Valve, with Union and Jenkins' Discs.

Fig. 317.



With Wood Wheel.

Fig. 318.



With Brass Wheel.

Fig. 317. With Wood Wheel.

Size, inches.			$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	....	2.75	3.50	4.30	5.85	7.75	12.60
" " Plated	" "	....	3.00	3.75	4.65	6.25	8.00	12.85
" " Plated all over.	" "	....	3.20	3.80	4.75	6.40	8.10	13.10
Finished and Plated all over.	" "	....	3.70	4.35	5.40	7.15	9.10	14.60

Fig. 318. With Brass Wheel.

Size, inches.			$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	....	3.15	4.10	4.95	6.85	9.25	14.10
" " Plated	" "	....	3.40	4.35	5.30	7.25	9.50	14.35
" " Plated all over.	" "	....	3.60	4.40	5.40	7.40	9.60	14.60
Finished and Plated all over.	" "	....	4.10	4.95	6.05	8.15	10.60	16.10

Fig. 317. With Square on Spindle.

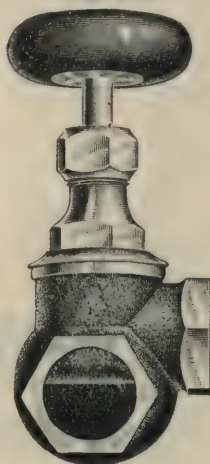
Size, inches.			$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	....	2.55	3.30	4.05	5.60	7.45	12.20
" " Plated	" "	....	2.80	3.55	4.40	6.00	7.70	12.45
" " Plated all over.	" "	....	3.00	3.60	4.50	6.15	7.80	12.70
Finished and Plated all over.	" "	....	3.50	4.15	5.15	6.90	8.80	14.20

Corner Radiator Valves.

Standard.

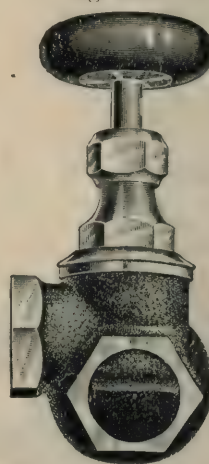
Right Hand Valve.

Fig. 319.



Left Hand Valve.

Fig. 320.



Figs. 319 and 320—with Wood Wheel.

Size, inches.		$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	2.75	3.50	5.00	7.00	11.55
" " Plated	" "	3.00	3.85	5.25	7.25	11.85
" " Plated all over.	" "	3.15	4.00	5.50	7.50	12.10
Finished and Plated all over.	" "	3.80	4.75	6.25	8.50	13.60

Figs. 319 and 320—with Brass Wheel.

Size, inches.		$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	3.35	4.15	6.00	8.50	13.05
" " Plated	" "	3.60	4.50	6.25	8.75	13.35
" " Plated all over.	" "	3.75	4.65	6.50	9.00	13.60
Finished and Plated all over.	" "	4.40	5.40	7.25	10.00	15.10

Figs. 319 and 320—with Square on Spindle.

Size, inches.		$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	2.55	3.25	4.75	6.70	11.15
" " Plated	" "	2.80	3.60	5.00	6.95	11.45
" " Plated all over.	" "	2.95	3.75	5.25	7.20	11.70
Finished and Plated all over.	" "	3.60	4.50	6.00	8.20	13.20

When ordering, state whether **Right** or **Left Hand** Valves are wanted.

Corner Radiator Valves.

J. M. T.

Right Hand Valve.

Fig. 321.



Left Hand Valve.

Fig. 322.



Fig. 321 and 322—with Wood Wheels.

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings, price each	2.75	3.50	5.00	7.00	11.55
“ “ Plated “ “	3.00	3.85	5.25	7.25	11.85
“ “ Plated all over “	3.15	4.00	5.50	7.50	12.10
Finished and Plated all over “	3.80	4.75	6.25	8.50	13.60

Fig. 321 and 322—with Brass Wheels.

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings, price each	3.35	4.15	6.00	8.50	13.05
“ “ Plated “ “	3.60	4.50	6.25	8.75	13.35
“ “ Plated all over “	3.75	4.65	6.50	9.00	13.60
Finished and Plated “ “	4.40	5.40	7.25	10.00	15.10

Fig. 321 and 322—with Square on Spindle.

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings, price each	2.55	3.25	4.75	6.70	11.15
“ “ Plated “ “	2.80	3.60	5.00	6.95	11.45
“ “ Plated all over “	2.95	3.75	5.25	7.20	11.70
Finished and Plated all over “	3.60	4.50	6.00	8.20	13.20

When ordering state whether RIGHT or LEFT HAND Valves are wanted.

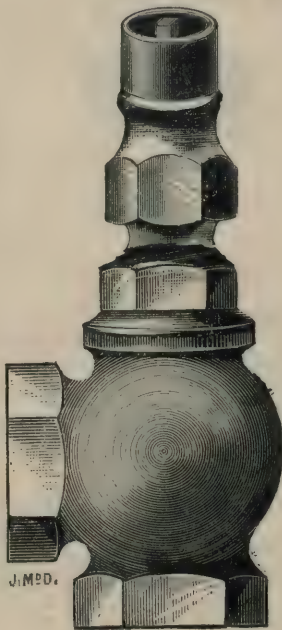
Radiator Valves.

Lock Shield Radiator Valves.

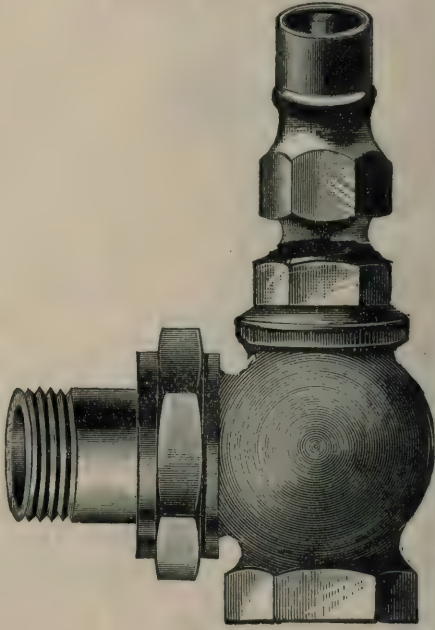
Fig. 323.

Standard.

Fig. 324.



Screwed.



With Union.

Fig. 323. Screwed.

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings, Price Each.	1.60	2.25	3.25	4.50	7.00
" " Plated " " " "	1.85	2.50	3.50	4.80	7.50
" " Plated all over, " " " "	1.95	2.65	3.70	5.00	7.75
Finished and Plated all over, " " " "	2.50	3.25	4.45	6.00	9.25

Fig. 324, With Union.

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings, Price Each.	2.45	3.25	4.50	6.50	10.00
" " Plated " " " "	2.75	3.50	4.85	6.90	10.50
" " Plated all over, " " " "	2.85	3.65	5.05	7.10	10.85
Finished and Plated all over., " " " "	3.40	4.30	5.80	8.10	12.35

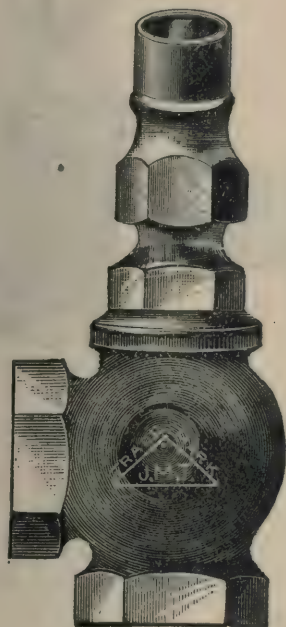
Fig. 323, For Natural Gas Stoves.

Size, Inches.	$\frac{3}{8}$	$\frac{1}{2}$
Rough Body, Finished Mountings, Price Each.	1.10	1.35
" " Plated " " " "	1.20	1.55
" " Plated all over, " " " "	1.30	1.65
Finished and Plated all over, " " " "	1.60	2.15

Radiator Valves.

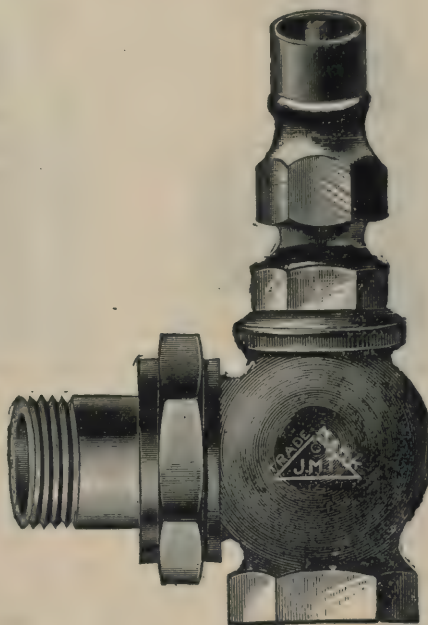
The J. M. T. Lock Shield Radiator Valve.

Fig. 325.



Screwed.

Fig. 326.



With Union.

Fig. 325, **Screwed.**

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings, price each	2.50	3.20	4.50	6.25	10.50
“ “ Plated “ “	2.70	3.50	4.75	6.50	10.75
“ “ Plated all over “	2.85	3.65	4.90	6.75	11.00
Finished and Plated all over “	3.40	4.25	5.65	7.75	12.50

Fig. 326, **with Union.**

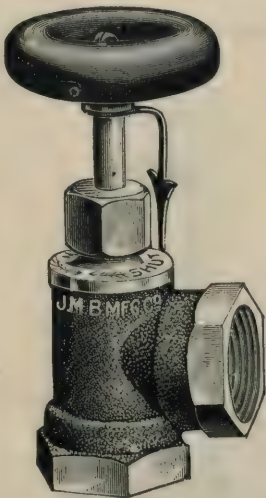
Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings, price each	3.50	4.30	5.85	7.75	12.60
“ “ Plated “ “	3.75	4.65	6.25	8.00	12.85
“ “ Plated all over “	3.80	4.75	6.40	8.10	13.10
Finished and Plated all over “	4.35	5.40	7.15	9.10	14.60

Radiator Valves.

Morrison's Patent Quick Opening Radiator Valves.

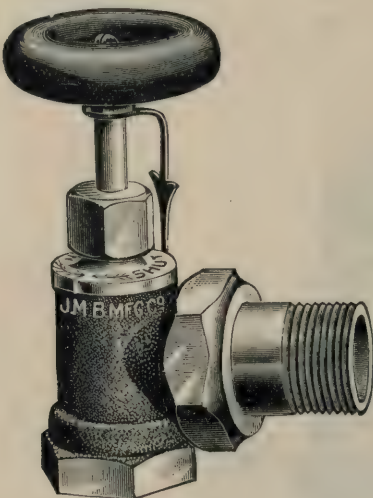
FOR HOT WATER.

Fig. 327.



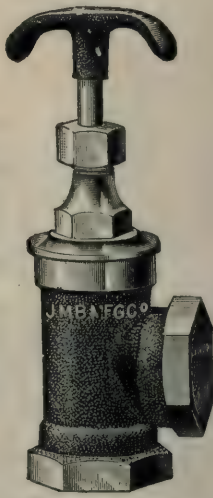
Without Union.

Fig. 328.



With Union.

Fig. 329.



With Sliding Stem.

Fig. 327, With Wood Wheel.

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Rough Body, Finished Mountings, Price Each.	1.60	2.25	3.25	4.50
" " Plated all over, " "	1.95	2.65	3.70	5.00
Finished and Plated all over, " "	2.50	3.25	4.45	6.00

Fig. 327, With Brass Wheel.

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Rough Body, Finished Mountings. Price Each.	2.20	2.90	4.25	6.00
" " Plated all over, " "	2.65	3.40	4.85	6.65
Finished and Plated all over, " "	3.20	4.00	5.60	7.65

Fig. 328. With Union and Wood Wheel.

Size, inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Rough Body, Finished Mountings. Price each.....	2.45	3.25	4.50	6.50
" " Plated all over. " "	2.85	3.65	5.05	7.10
Finished and Plated all over. " "	3.40	4.30	5.80	8.10

Fig. 328. With Union and Brass Wheel.

Size, inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Rough Body, Finished Mountings. Price each	3.05	3.90	5.50	8.00
" " Plated all over. " "	3.45	4.31	6.05	8.60
Finished and Plated all over. " "	4.00	4.95	6.80	9.60

Fig. 329, With Sliding Stem.

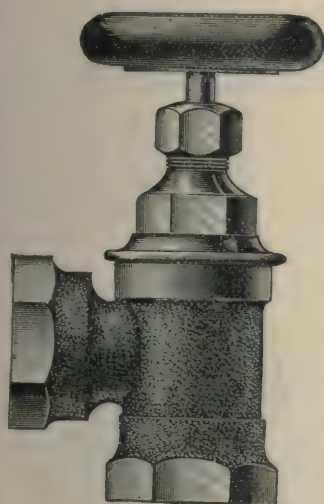
Size, Inches.	1	$1\frac{1}{4}$
Rough Body, Plated all over, price each.....	2.65	3.70

Radiator Valves.

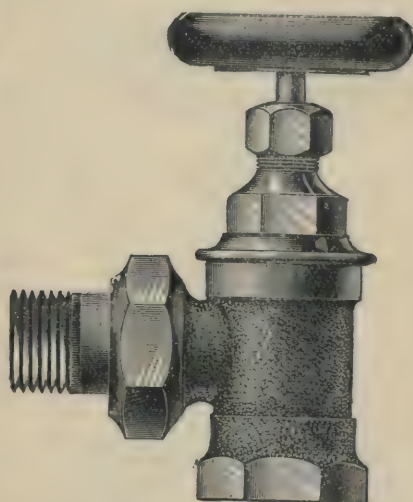
Quick Opening Radiator Valves.

FOR HOT WATER.

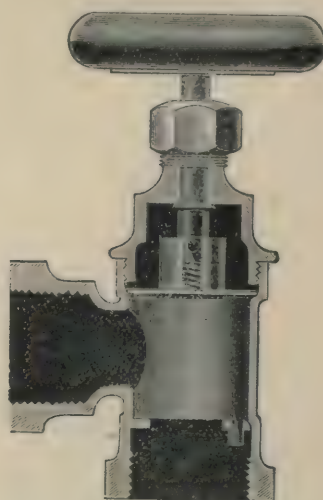
Fig. 329½.



Without Union.



With Union.



Section.

List Prices same as Figs. 327 and 328.

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Fin'd. Mountings, price each.....	2.25	3.20	4.65	6.15	8.80
" " Plated " "	2.50	3.50	5.05	6.75	9.40
" " Plated all over, "	2.75	3.75	5.35	7.10	9.75
Finished and Polished all over "	2.75	3.75	5.30	7.15	10.00
" and Plated all over, "	3.00	4.00	5.60	7.40	10.25

Fig. 331. With Brass Wheel.

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Fin'd. Mountings, price each.....	2.85	3.85	5.65	7.65	9.30
" " Plated " "	3.10	4.10	6.05	8.25	10.90
" " Plated all over, "	3.35	4.30	6.35	8.60	11.25
Finished and Polished all over "	3.35	4.30	6.30	8.65	11.50
" and Plated all over "	3.60	4.65	6.60	8.90	11.75

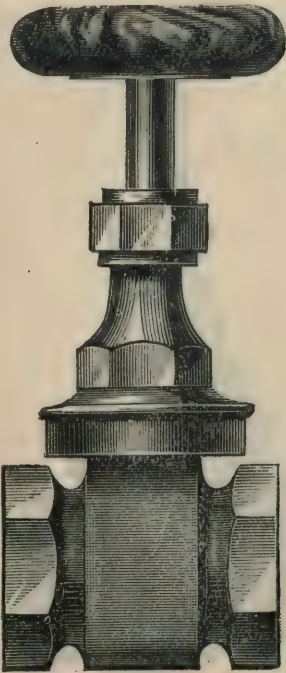
Fig. 332. With Square on Spindle.

Size, Inches.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Fin'd. Mountings, price each.....	2.05	3.00	4.40	5.85	8.40
" " Plated " "	2.30	3.30	4.80	6.45	9.00
" " Plated all over "	2.55	3.55	5.10	6.80	9.35
Finished and Polished all over "	2.55	3.55	5.05	6.85	9.60
" and Plated all over "	2.80	3.80	5.35	7.10	9.85

Radiator Valves.

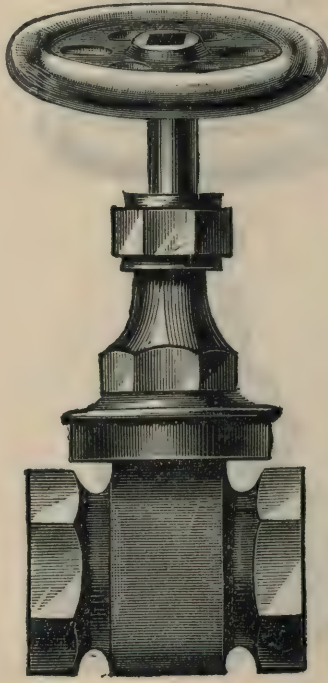
Peet Valves for Hot Water Radiators.

Fig. 333.



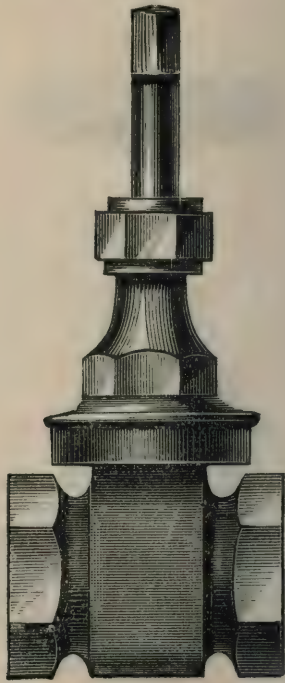
With Wood Wheel.

Fig. 334.



With Brass Wheel.

Fig. 335.



With Sq. on Spindle.

Fig. 333,—With Wood Wheel.

Size, inches.		$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	2.25	3.20	4.65	6.15	8.80
" " Plated	" "	2.50	3.50	5.05	6.75	9.40
" " Plated all over.	" "	2.75	3.75	5.35	7.10	9.75
Finished and Polished all over.	" "	2.75	3.75	5.30	7.15	10.00
" and Plated all over.	" "	3.00	4.00	5.60	7.40	10.25

Fig. 334.—With Brass Wheel.

Size, inches.		$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	2.85	3.85	5.65	7.65	9.30
" " Plated	" "	3.10	4.10	6.05	8.25	10.90
" " Plated all over.	" "	3.35	4.30	6.35	8.60	11.25
Finished and Polished all over.	" "	3.35	4.30	6.30	8.65	11.50
" and Plated all over.	" "	3.60	4.65	6.60	8.90	11.75

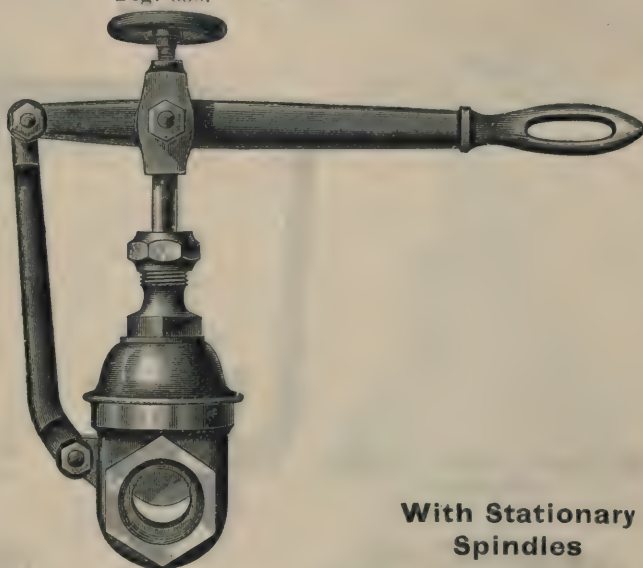
Fig. 335. With Square on Spindle.

Size, inches.		$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Mountings.	Price each	2.05	3.00	4.40	5.85	8.40
" " Plated Mountings.	" "	2.30	3.30	4.80	6.45	9.00
" " Plated all over.	" "	2.55	3.55	5.10	6.80	9.35
Finished and Polished all over.	" "	2.55	3.55	5.05	6.85	9.60
" and Plated all over.	" "	2.80	3.80	5.35	7.10	9.85

Gate, or Straightway Valves.

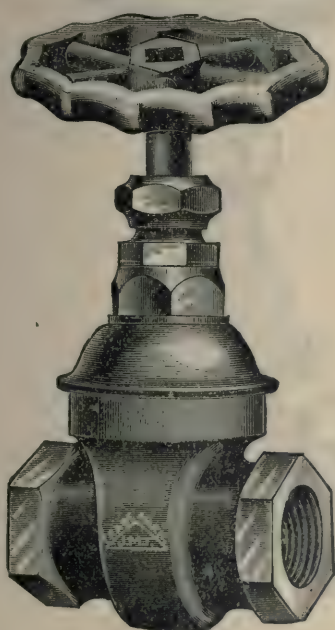
The J. M. T. Straightway Valves with Sliding Stem and Lever.

Fig. 336.



With Stationary
Spindles

Fig. 337.



Screwed.

With Stationary
Spindles

Fig. 338.



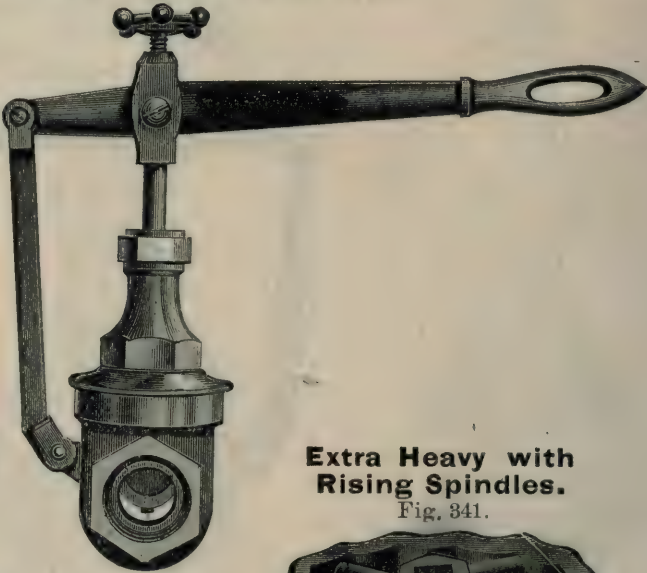
Flanged.

Size, Inches.			$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 336.	{ Sliding Stem and Lever }	Screwed, price each....	2.30	2.95	3.65	4.85	6.05	8.25
		Flanged, " "	3.50	4.20	5.40	6.60	9.30	12.00
Fig. 337.	Screwed,	- " "	1.30	1.75	2.25	3.25	4.25	6.25
Fig. 338.	Flanged,	- " "	2.50	3.00	4.00	5.00	7.50	10.00
Diameter of Flanges, inches.....					4	$4\frac{1}{2}$	5	6

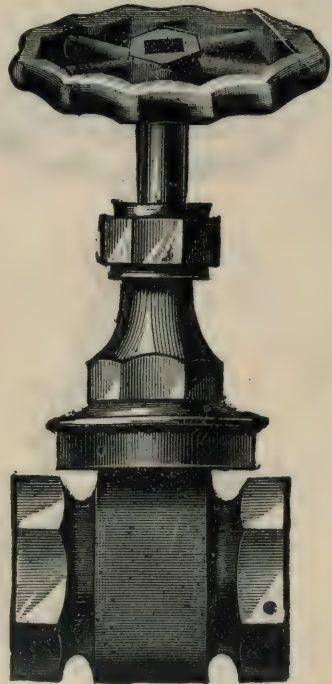
NOTE.—Figs. 337 and 338 are made with rising Spindles when wanted.

Gate, or Straightway Valves.
PEET VALVES.

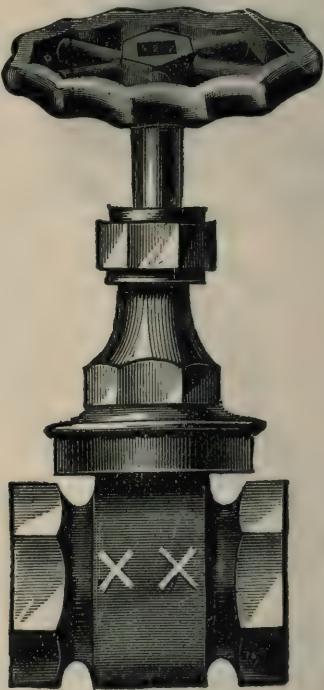
Fig. 339—with Sliding Stem and Lever.



Standard with Rising
Spindles.
Fig. 340.



Extra Heavy with
Rising Spindles.
Fig. 341.



Size, Inches		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	4
Fig. 339	{ Screwed, price each	2.30	2.95	3.65	4.85	6.05	8.25	13.75	18.50	43.00
	{ Flanged, " "	.....	.....	5.00	6.60	9.30	12.00	18.25	22.50	51.00
Fig. 340	{ Screwed, " "	1.30	1.75	2.25	3.25	4.25	6.25	.....	.....	.....
	{ Flanged, " "	.....	.....	4.00	5.00	7.50	10.00	.....	.....	.....
Fig. 341	{ Screwed, " "	1.55	2.10	2.70	3.90	5.10	7.50	13.00	18.00	44.00
	{ Flanged, " "	.....	.....	4.50	5.60	8.25	11.00	16.75	22.00	50.00
Diam. of Flanges, Inches . . . . .		.....	.....	4	$4\frac{1}{2}$	5	6	7	8	.....

Gate, or Straightway Valves.

"Webber" Valves.

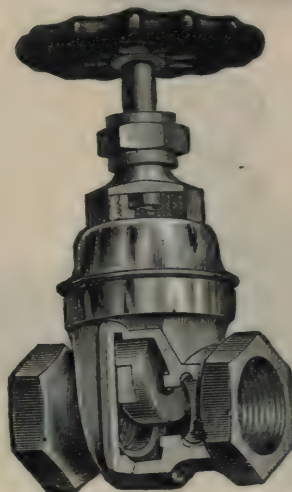
**With Sliding Stem
and Lever.**

Fig. 342.



**Wheel Handle
Screwed and Flanged.**

Fig. 343.



Size, Inches		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 342	Screwed, price each	2.30	2.95	3.65	4.85	6.05	8.25	13.75	18.50	.....	.....
	Flanged, " "	3.50	4.20	5.40	6.60	9.80	12.00	18.25	.....	.....	.....
Fig. 343	Screwed, " "	1.30	1.75	2.25	3.25	4.25	6.25	11.50	16.00	32.00	40.00
	Flanged, " "	2.50	3.00	4.00	5.00	7.50	10.00	16.00	20.00	40.00	48.00
Diameter of Flanges, inches		3	3	4	$4\frac{1}{2}$	5	6	7	7	$8\frac{1}{2}$	9

Fig. 344.

**Cross
Valves**

**Screwed
and Flanged**

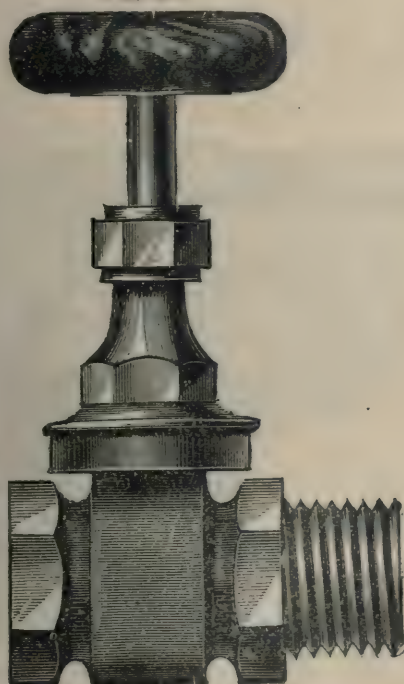


Size, Inches		$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Screwed, price each		.85	1.00	1.50	2.00	2.50	3.50	5.00	8.00	16.00	24.00
	Flanged, " "	.....	.....	.....	.....	7.00	10.00	13.00	21.00	30.00	45.00
Diameter of Flanges, inches		.....	.....	.....	.....	4	$4\frac{1}{2}$	5	6	7	8

Gate, or Straightway Hose Valve.

Peet Hose Valve.

Fig. 349.



J. M. T. Hose Valve.

Fig. 350.



Fig. 349. Peet Hose Valve with Iron Wheel.

Size, Inches.	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$
Without Cap and Chain, price each.....	2.50	3.50	5.00	7.50	14.00
With " " " " "	3.75	4.85	6.50	9.25	16.50

Fig. 349. Peet Hose Valve with Brass Wheel.

Size, Inches.	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$
Finished all over, without Cap and Chain.....price each	5.00	6.75	9.35	13.00	21.00
Finished & Plated all over, without Cap and Chain, " "	5.50	7.35	10.00	14.00	22.50
Finished all over, with Cap and Chain, " "	6.25	8.10	10.85	14.75	23.50
Finished & Plated all over, with Cap and Chain, " "	6.90	9.00	11.75	16.00	25.50

Fig. 350. J. M. T. Hose Valve with Iron Wheel.

Size, Inches.	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$
Without Cap and Chain, price each.....	2.50	3.50	5.00	7.50	14.00
With " " " " "	3.75	4.85	6.50	9.25	16.50

Fig. 350. J.M.T. Hose Valve with Brass Wheel.

Size, Inches.	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$
Finished all over, without Cap and Chain.....price each	5.00	6.75	9.35	13.00	21.00
Finished & Plated all over, without Cap and Chain, " "	5.50	7.35	10.00	14.00	22.50
Finished all over, with Cap and Chain.....	6.25	8.10	10.85	14.75	23.50
Finished & Plated all over, with Cap and Chain, " "	6.90	9.00	11.75	16.00	25.50

Throttle Valves.

Brass Throttle Valves with Lever Handles.

Fig. 351.

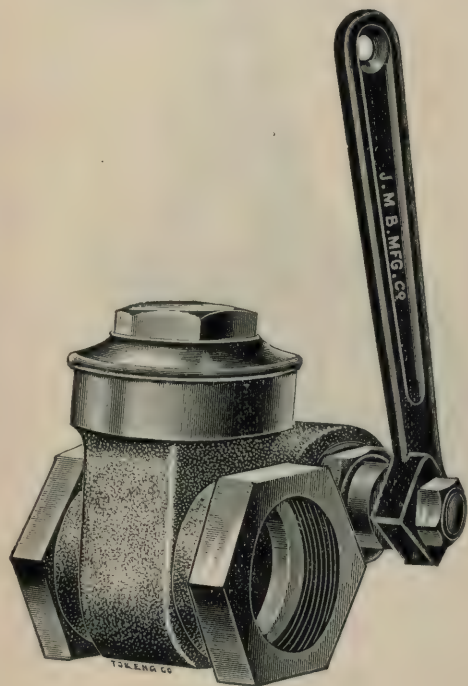


Fig. 352.

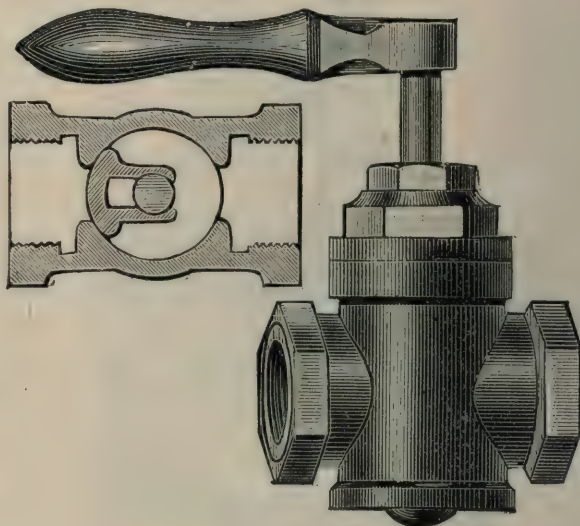
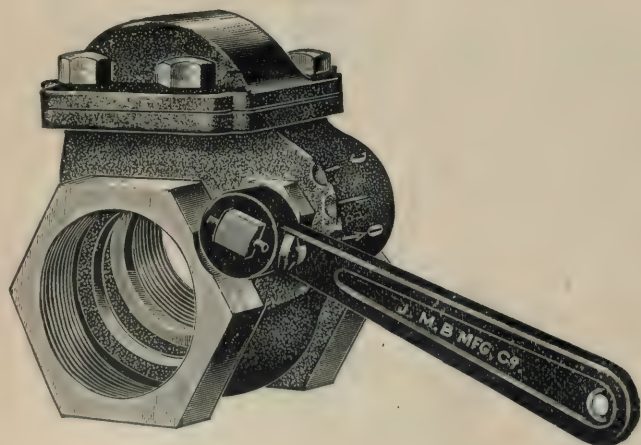
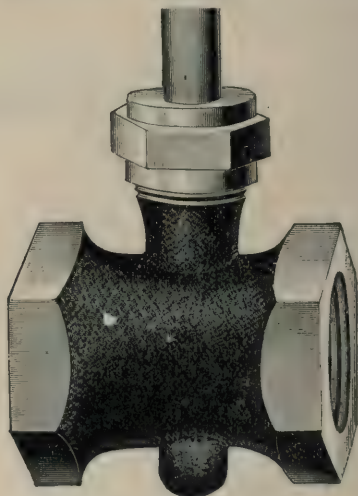


Fig. 353.



Butterfly Valve, Iron Body.

Fig. 354.

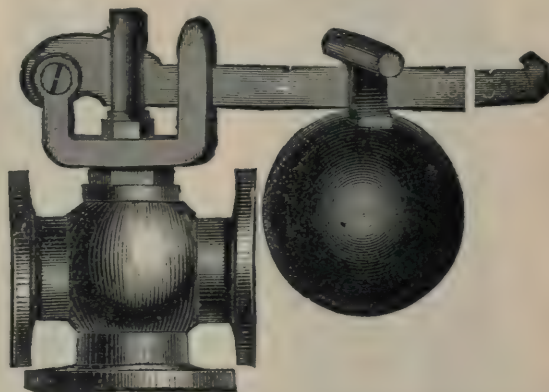
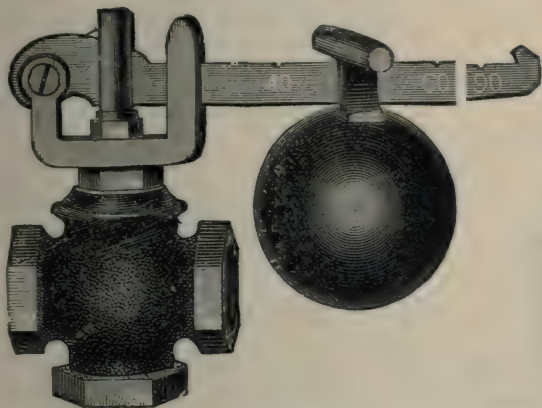
[illegible]

Cross Safety Valves.

Steam Metal.

Fig. 355.

Fig. 356.



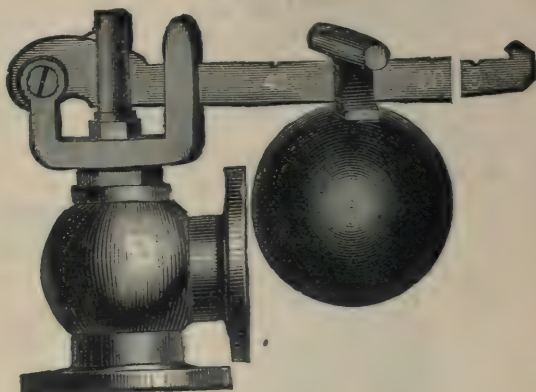
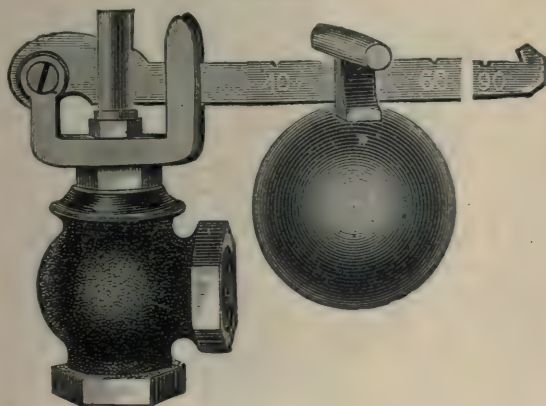
Size, Inches.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 355, Screwed Ends, price each.....	2.75	3.50	5.00	7.00	8.50	12.00	20.00	30.00
" 356, Flanged Ends, " "			9.50	13.50	17.50	25.00	34.00	50.00

Angle Safety Valves.

Steam Metal.

Fig. 357.

Fig. 358.



Size, Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 357, Screwed Ends, price each.....	2.75	3.50	5.00	7.00	8.50	12.00	20.00	30.00
" 358, Flanged Ends, " "			9.50	13.50	17.50	25.00	34.00	50.00

Pop Safety Valves.

For Portable Engines.

Fig. 359.



For Stationary Engines.

Fig. 360.

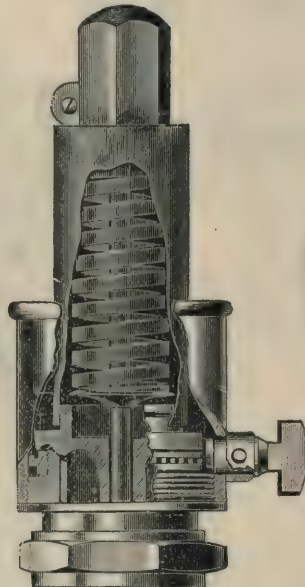
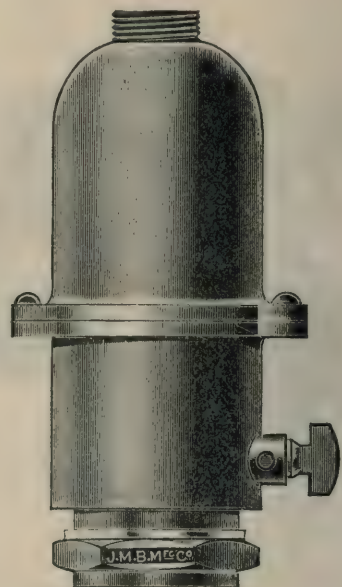
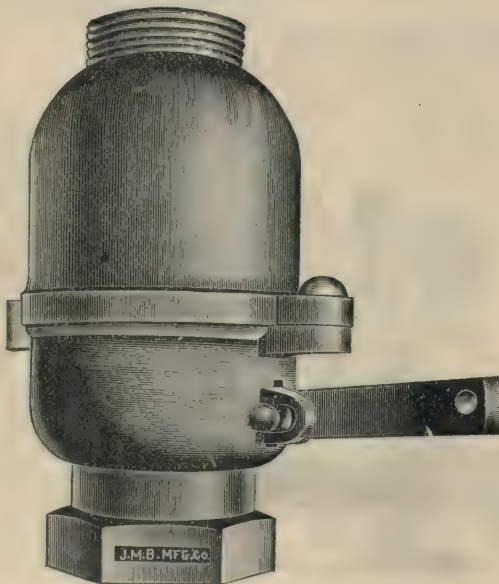


Fig. 361.



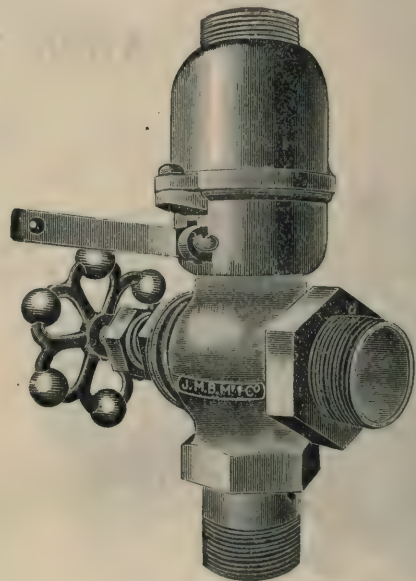
Pop Safety Valves.

Fig. 362.



Combined Angle and Safety Valve.

Fig. 363.



Size, Inches	1	1 1/4	1 1/2	2	2 1/2	3
Fig. 359, Double Seat, for Portable Engines, each..	12.00	15.00	.....	.....	.....	.....
" 360, " Consolidated " for Stationary " " ..	12.00	15.00	20.00	30.00	50.00	65.00
" 361, " " with Cover, " ..	13.00	16.00	21.00	31.00	51.00	66.00
" 362, Pop Safety Valve with Cover, price each..	.....	8.75	11.00	19.75	.....	.....
" 363, Comb'd. Angle Safety Valve, " ..	.....	.....	15.00	25.00	.....	.....

Direct Weight, Low Pressure Safety Valve.

Cross Pattern.

Fig. 364.



Angle Pattern.

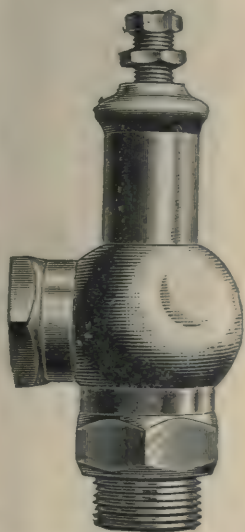
Fig. 365.



Size, Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 364, Cross Pattern, price each.....	3 25	4.00	5.50	7.00	9.00
" 365, Angle Pattern. "	2.50	3.00	4.00	5.00	6.50

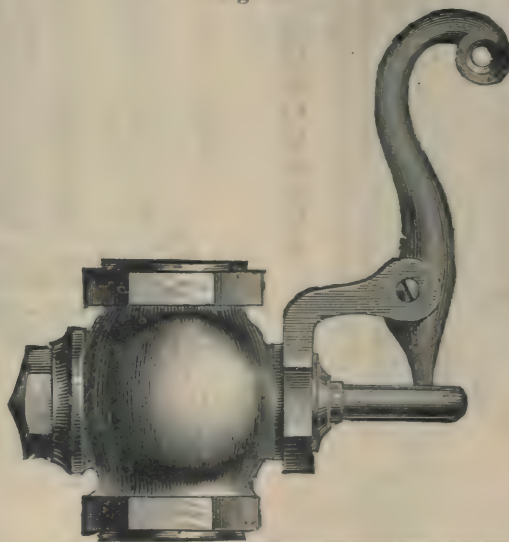
Relief Valves For Cylinders.

Fig. 366.



Whistle Valve.

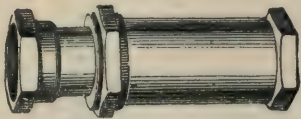
Fig. 367.



Size, Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 366, Relief Valve, to 100 lbs. press., price each	3.75	5.63	7.50	9.38	11.25	15.00	37.50	45.00
" 366, " over 100 "	4.50	6.75	9.00	11.25	13.50	18.00	41.25	49.50
" 367, Whistle Valve,	2.25	2.75	3.25	4.00	5.50	9.50	20.00	30.00

Expansion Joints, Brass.

Fig. 368.



Size, Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Length of Traverse, Standard, Inches	$2\frac{1}{4}$	$2\frac{1}{2}$	3	$4\frac{1}{2}$	5	5	5	5
Standard Traverse, price each.....	1.50	2.00	2.75	4.00	5.50	8.00	16.00	24.00
Special Traverse, 6 inches, price each	.....	8.25	9.00	10.00	11.50	13.50	.....	.....
" " 8 " "	.....	9.00	10.00	11.25	13.00	15.50	.....	.....
" " 10 " "	.....	9.75	11.00	12.50	14.50	17.50	.....	.....
" " 12 " "	.....	10.50	12.00	13.75	16.00	19.50	.....	.....

Automatic Air Valves.

The "Van Auken" Automatic Air Valves For Steam and Water.

For Steam,
Fig. 369.



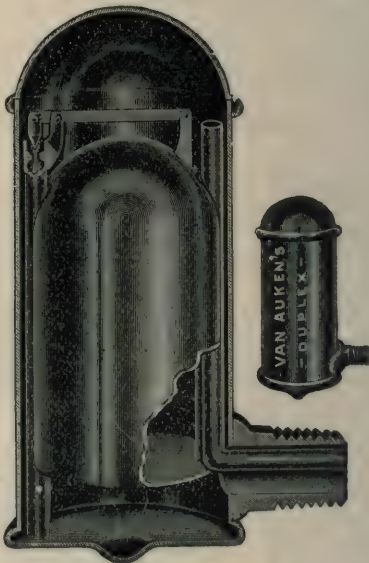
No. 1

Pat'd Dec. 9, 90, Aug. 25, 91, Feb. 2, 92.



No. 3

For Hot Water.
Fig. 370.



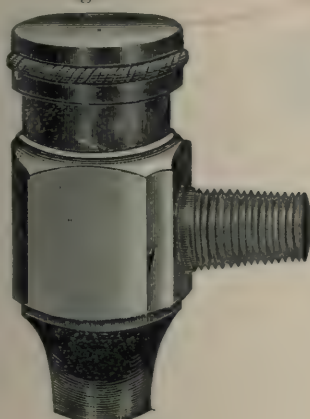
Description	STEAM.—Fig. 369.				HOT WATER. FIG. 370	
	No. 1		No. 3			
	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$
Nickle Plated, price each.....	1.15	1.15	1.15	1.15	3.00	3.00

The "Jenkins" Automatic Expansion Air Valves.

Fig. 372.

Fig. 372. *b*

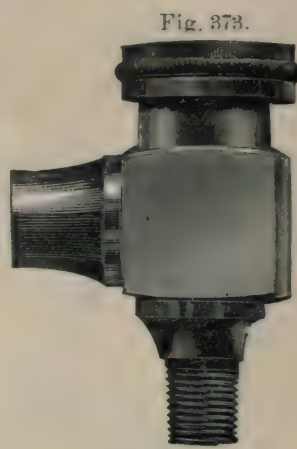
Fig. 371.



Vertical.



Drill Cup.

Fig. 372. *a*Auxiliary Valve
and Drip Cup.Right and Left
Coupling.Fig. 372. *c*Right and Left
Coupling with Union.

Horizontal.

Size, Inches.

1/4

Figs. 371 and 373, Nickel Plated, price each	1.80
Fig. 372 Drip Cup.	.25
" 372 <i>a</i> Valve and Drip Cup, Nickel Plated, price each	.35
" 372 <i>b</i> R. and L. Coupling	.35
" 372 <i>c</i> " " with Union	.45

Fig. 374.



Valve Keys.

Fig. 375.



Fig. 376.



Fig. 377.



Description

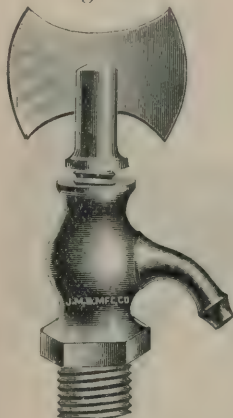
FINISHED.

N. PLATED.

Fig. 374, with Wood Wheel, price each	.80	1.00
" 375, T Handle, Long, " "	.50	.75
" 376, T Handle, Small, " "	.30	.40
" 377, Fancy Key, Small, " "	.25	.30

Compression Air Valves.

Fig. 378.



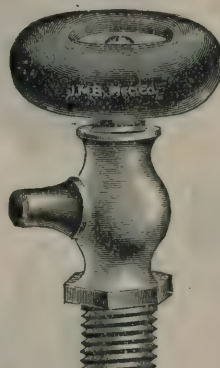
No. 1.

Fig. 379



No. 2.

Fig. 380



No. 3.

Fig. 381.



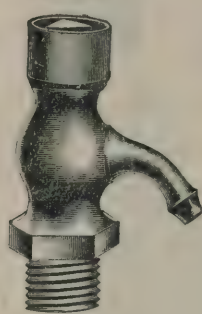
No. 4.

Fig. 382.



No. 5.

Fig. 383.



No. 6.

Fig. 384.



No. 7.

Fig. 385.



No. 8.

Fig. 386.



No. 9.

Fig. 387.



No. 10.

Fig. 388.



No. 11.

Fig. 389.



Key for
Nos. 6, 7, 9 & 10

DESCRIPTION	FINISHED		N. PLATED		DESCRIPTION	FINISHED		N. PLATED	
SIZE, INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$	SIZE, INCHES	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{4}$
Fig. 378, No. 1, price each	32	32	35	35	Fig. 384, No. 7, price each	32	32	35	35
" 379, " 2, " "	32	32	35	35	" 385, " 8, " "	32	32	35	35
" 380, " 3, " "	32	32	35	35	" 386, " 9, " "	32	32	35	35
" 381, " 4, " "	32	32	35	35	" 387, " 10, " "	28	28	30	30
" 382, " 5, " "	32	32	35	35	" 388, " 11, " "	18	18	20	20
" 383, " 6, " "	32	32	35	35	" 389, Keys " "	....	09	....	10

No. 10, Rough, $\frac{1}{8}$ and $\frac{1}{4}$ inch, 25 cents each.

Steam Gauges.

Bourbon, Pressure and Vacuum Gauges.

Fig. 390.



Pressure Gauges, with Iron Case and Brass Ring.

Diameter of Dial, inches.	4	5	5½	6	6¾	8½	10	12
Japanned Case, Finished Ring. Price each.	5.00	5.00	7.00	9.00	13.00	20.00	28.00	48.00
Japanned Case, Nickel Plated Ring. "	5.50	5.50	7.60	9.60	13.75	21.00	29.00	49.50
Bronzed Case, Nickel Plated Ring. "	7.00	7.00	9.50	11.60	16.00	23.00	31.50	52.00

Pressure Gauges, with Brass Case and Ring.

Diameter of Dial, inches.	2½	4	5	5½	6	6¾	8½	10	12
Finished Case and Ring. Price each.	6.50	7.50	9.00	11.00	14.00	18.00	27.00	35.00	75.00
Fin'd Case, Nickel Plated Ring. "	7.00	8.00	9.50	11.60	14.60	18.75	27.75	36.00	76.50
Nickel Plated Case and Ring. "	7.50	8.50	10.00	12.50	16.00	20.00	30.00	38.00	80.00

Vacuum Gauges, with Iron Case and Brass Ring.

Diameter of Dial, inches.		5	5½	6	6¾	8½	10	12
Japanned Case, Finished Ring,	Price each -	5.00	7.00	9.00	13.00	20.00	28.00	48.00
Japanned Case, Nickle Plated Ring.	" -	5.50	7.60	9.60	13.75	21.00	29.00	49.50
Bronzed Case, Nickle Plated Ring.	" -	7.00	9.50	11.60	16.00	23.50	31.50	52.00

Vacuum Gauges, with Brass Case and Ring.

Diameter of Dial, inches.		5	5½	6	6¾	8½	10	12	
Finished Case and Ring.	Price each	-	9.00	11.00	14.00	18.00	27.00	35.00	75.00
Finished Case, Nickel Plated Ring.	"	-	9.50	11.60	14.60	18.75	27.75	36.00	76.50
Nickel Plated Case and Ring.	"	-	10.00	12.50	16.00	20.00	30.00	38.00	80.00

All Gauges warranted for TWO YEARS.

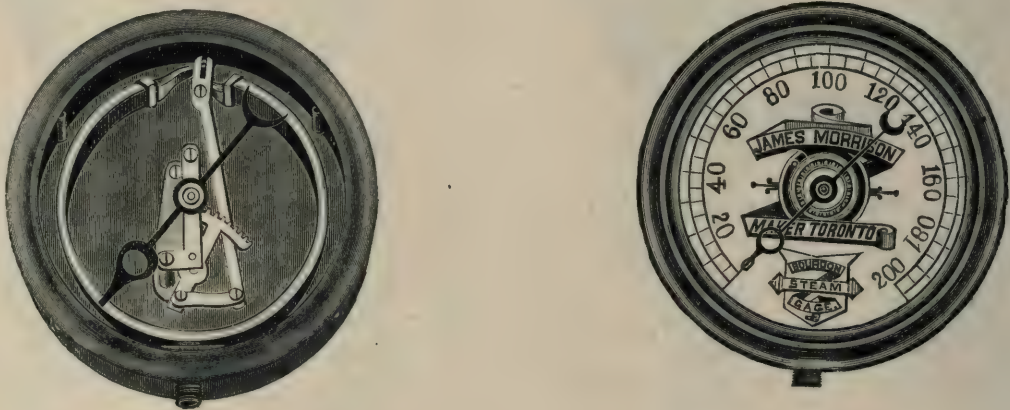
All Pressure Gauges of every kind are tested by an open Mercury Column and warranted correct.

A Syphon is indispensable for every Gauge. No Gauge warranted where Syphon is not used.

Steam Gauges.

Morrison's Improved Pressure Gauge.

Fig. 391.



With Iron Case and Brass Ring.

Diameter of Dial, inches.	5	5½	6	6¾	8½	10	12
Japanned Case, Finished Ring, price each.	6.00	8.00	10.00	14.00	21.00	30.00	50.00
“ “ Nickel Plated Ring, “	6.50	8.50	10.60	14.75	21.75	31.00	51.50
Bronzed “ “ “ “ “	8.25	10.25	12.75	16.75	25.00	33.50	54.00

With Brass Case and Ring.

Diameter of Dial, inches.	5	5½	6	6¾	8½	10	12
Finished Case and Ring, price each.	9.00	11.00	14.00	18.00	27.00	37.00	77.00
“ “ Nickel Plated Ring, price each	9.50	11.50	14.60	18.75	27.75	38.00	78.50
Nickel Plated Case and Ring, “	10.50	13.00	16.00	20.00	29.00	40.00	82.00

All Gauges warranted for TWO YEARS.

As the Springs in Morrison's Improved Pressure Gauges will carry 300 lbs. for every 100 lbs. indicated on the Dial, they may be run up to the full indicated pressure without danger of setting.

A Syphon is indispensable for every Steam Gauge. NO GAUGE WARRANTED WHERE SYPHON IS NOT USED.

Steam Gauges.

With Black Dials and White Figures.

Morrison's Improved or Bourdon Style.

Fig. 392.



Bourdon, with Iron Case and Brass Ring.

Diam. of Dial, Inches.	4	5	5½	6	6¾	8½
Japanned Case, Finished Ring, price each.....	5.00	5.00	7.00	9.00	13.00	20.00
Japanned Case, Nickel Plated Ring "	5.50	5.50	7.60	9.60	13.75	21.00
Bronzed Case, Nickel Plated Ring, "	7.00	7.00	9.50	11.60	16.00	23.50

For Prices of Brass Case see page 114.

Morrison's Improved, with Iron Case and Brass Ring.

Diameter of Dial, Inches.	5	5½	6	6¾	8½
Japanned Case, Finished Ring, price each.....	6.00	8.00	10.00	14.00	21.00
Japanned Case, Nickel Plated Ring, "	6.50	8.50	10.60	14.75	21.75
Bronzed Case, Nickel Plated Ring. "	8.25	10.25	12.75	16.75	25.00

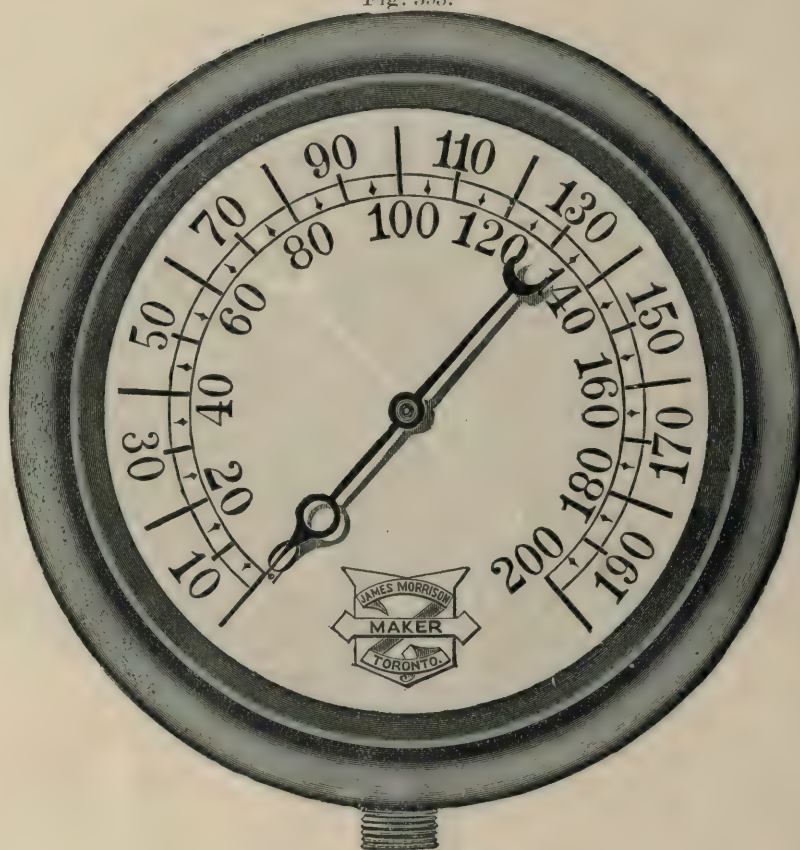
For Prices of Brass Case see page 114.

All Gauges warranted for two Years.

A Syphon is indispensable for every Gauge. No Gauge warranted where Syphon is not used.

THE MORRISON'S IMPROVED Locomotive Steam Gauge.

Fig. 393.



With Brass Case and Ring

Diameter of Dial, inches.....	6 $\frac{3}{4}$
Finished Case and Ring, price each.....	22.00
Finished Case and Nickel Plated Ring, price each.....	22.75
Nickel Plated Case and Ring, " "	24.00

The heavy Springs used in the Morrison's Improved Locomotive Steam Gauge makes them peculiarly adapted for Locomotive use. These Gauges may be run up to the full indicated pressure on the Dial, every day in the year, without any risk of the spring setting, a feature possessed by no other Gauge made.

All Gauges warranted for two Years.

A Syphon is indispensable for every Gauge. No Gauge warranted where Syphon is not used.

Combination Pressure and Vacuum Gauge.

Fig. 394.



With Iron Case and Brass Ring.

Diameter of Dial, inches.....	6	6 $\frac{3}{4}$	8 $\frac{1}{2}$
Japanned Case, Finished Ring, price each.....	16.00	18.00	22.00
“ “ Nickel Plated Ring, “	16.60	18.75	22.75
Bronzed “ “ “ “ “	18.60	21.00	25.25

With Brass Case and Ring.

Diameter of Dial, inches.....	6	6 $\frac{3}{4}$	8 $\frac{1}{2}$	10
Finished Case and Ring, price each.....	19.00	22.00	30.00	40.00
“ “ Nickel Plated Ring, price each.....	19.60	22.75	30.75	41.00
Nickel Plated Case and Ring, “	21.00	24.00	33.00	43.00

For indicating either Pressure or Vacuum, as the case may be. It is graduated for Pressure in lbs. per square inch, and for Vacuum in inches of Mercury in column, or lbs. per square inch, as may be desired.

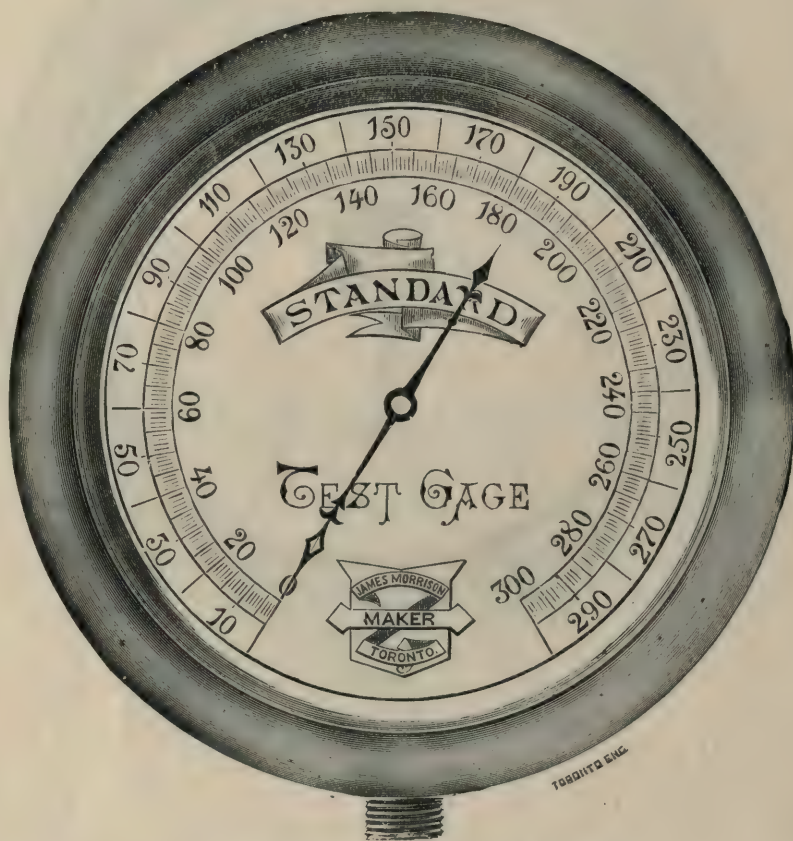
That portion of the graduated circle which indicates PRESSURE may be made to exceed the portion for indicating VACUUM, if a pressure exceeding 15 pounds per square inch is desired, and the amount of this pressure should be stated in ordering.

A Syphon is INDISPENSABLE with this Gauge.

Warranted for two Years.

MORRISON'S IMPROVED
Standard Test Gauge.

Fig. 395.



With Brass Case and Ring.

Diameter of Dial, Inches.	2½	4	5	5½	6	6¾	8½	10
Finished Case and Ring, price each	8.00	12.00	14.00	18.00	22.00	25.00	34.00	45.00
Finished Case, Nickel Plated Ring "	8.50	12.50	14.50	18.60	22.60	25.75	34.75	46.00
Nickel Plated Case and Ring, "	9.00	13.00	15.00	19.50	24.00	27.00	37.00	48.00

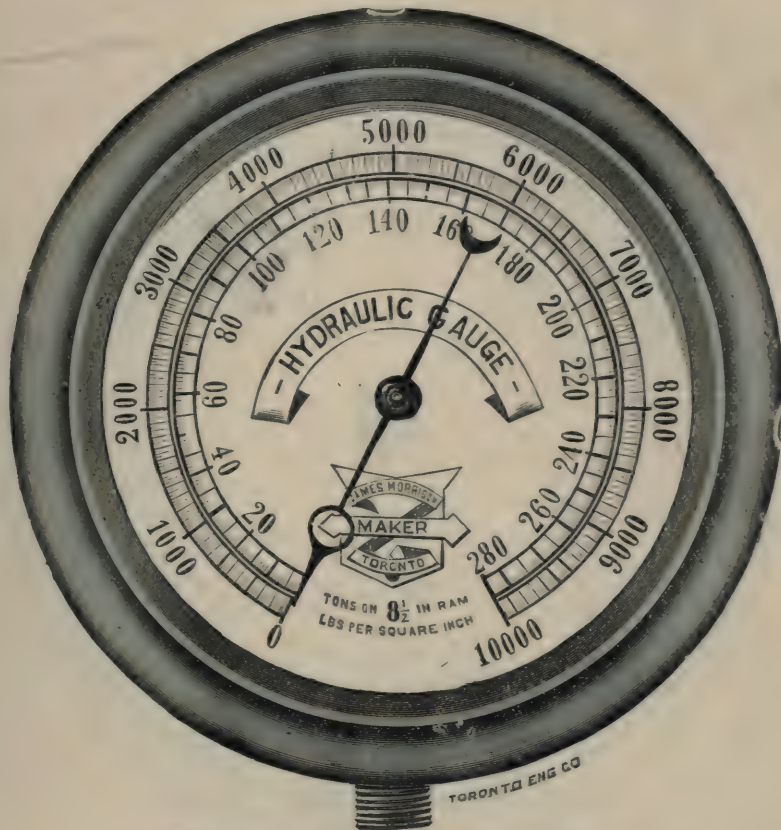
These Gauges are made in the style of Morrison's Improved Pressure Gauges. They are made with the greatest care, are tested and adjusted by the open Mercury Column and warranted correct. The heavy Springs used in this style of Gauge makes it especially applicable for Test Gauges.

All Gauges warranted for two Years.

A Syphon is indispensable for every Gauge. No Gauge warranted where Syphon is not used.

Hydraulic Gauge.

Fig. 396.



With Iron Case and Brass Ring.

Diameter of Dial, inches.	6	6 $\frac{3}{4}$	8 $\frac{1}{2}$	10
Pressure in lbs. per square inch.	6,000	10,000	20,000	20,000
Japanned Iron Case, Finished Ring. Price each	25.00	35.00	45.00	75.00
Japanned Iron Case, Nickel Plated Ring. "	25.60	35.60	45.75	76.00
Bronzed Iron Case, Nickel Plated Ring. "	27.00	37.00	48.50	80.00

With Brass Case and Ring.

Diameter of Dial, inches.	6	6 $\frac{3}{4}$	8 $\frac{1}{2}$	10
Pressure in lbs., per square inch.	6,000	10,000	20,000	20,000
Finished Case and Ring. Price each - -	35.00	45.00	55.00	90.00
Finished Case, Nickel Plated Ring. " - -	35.60	45.60	55.75	91.00
Nickel Plated Case and Ring. " - -	37.00	47.00	58.00	93.00

In ordering, state Diameter of Piston of Ram, and highest pressure to be carried in lbs. per square inch, or in tons on Ram.

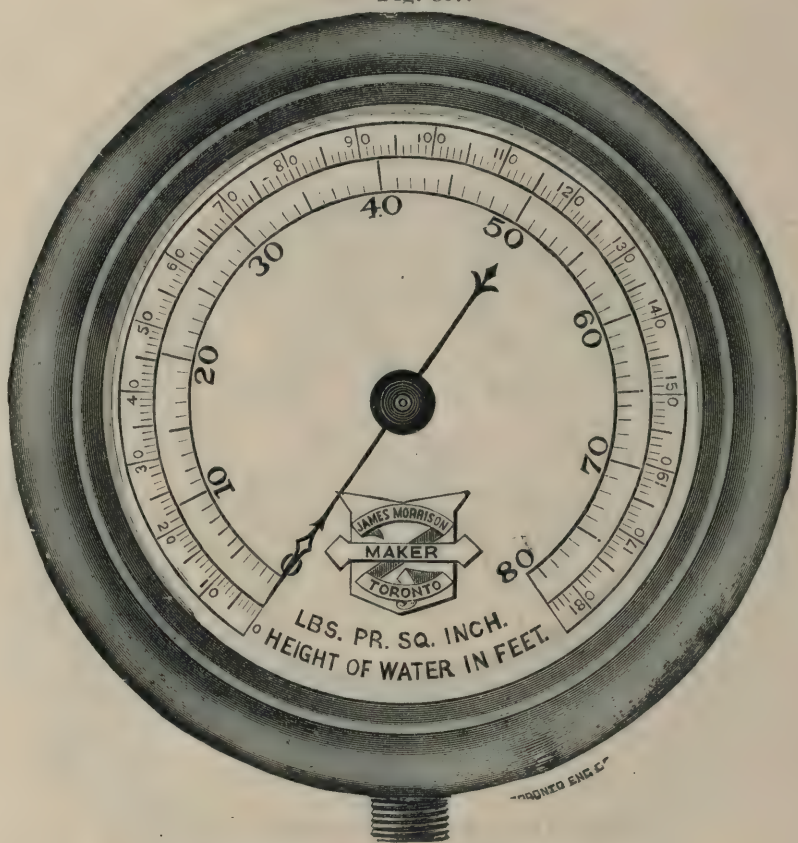
These Gauges are not kept in stock, and made only to order.

All Gauges warranted for two Years.

A Syphon is indispensable for every Gauge. No Gauge warranted where Syphon is not used.

Combination Water Works Gauge.

Fig. 397.



With Iron Case and Brass Ring.

Diameter of Dial, inches.....	5½	6	6¾	8½
Japanned Case, Finished Ring, price each.....	14.00	16.00	18.00	22.00
Japanned Case, Nickel Plated Ring, price each.....	14.50	16.60	18.75	22.75
Bronzed Case, Nickel Plated Ring, " "	16.50	18.60	21.00	25.00

Brass Case and Ring.

Diameter of Dial, inches.....	5	5½	6	6¾	8½	10	12
Finished Case and Ring, price each.....	14.00	16.00	19.00	22.00	30.00	40.00	80.00
Finished Case, Nickel Plated Ring, price each.....	14.50	16.50	19.60	22.75	30.75	41.00	81.50
Nickel Plated Case and Ring, " "	15.00	17.50	21.00	24.00	33.00	43.00	85.00

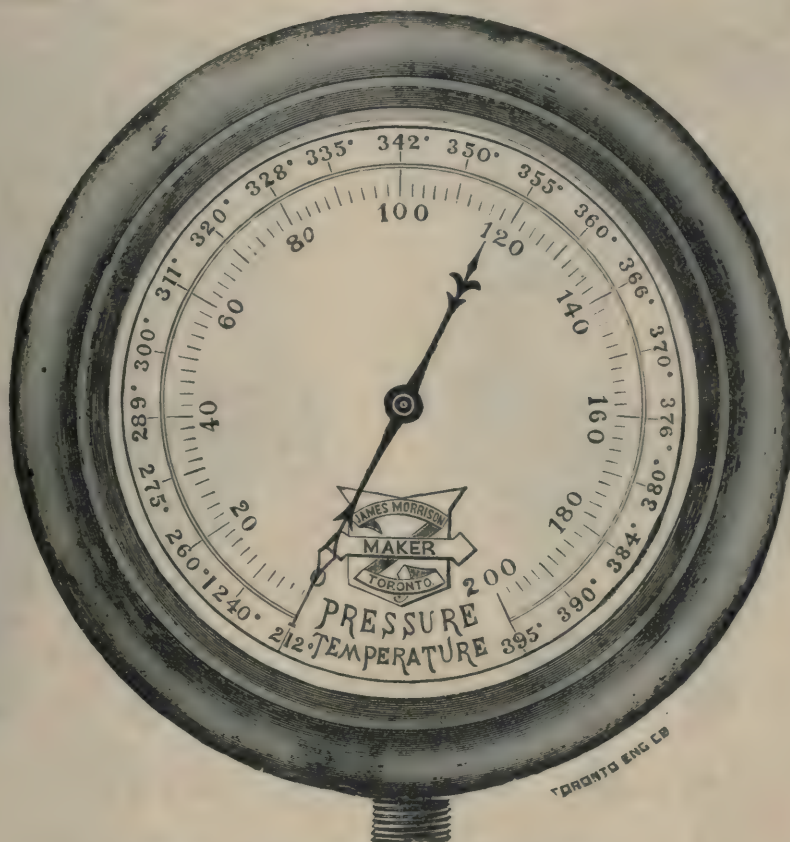
For indicating pressure of water in lbs. per square inch, and corresponding height of water in a second circle.

In ordering, be sure to state the greatest height of water, or pressure ever attained, where it is to be used.

For use on water mains service pipes, &c. Requires no Syphon.

Pyrometer Steam Gauge.

Fig. 398.



With Iron Case, Brass Ring.

Diameter of Dial, Inches	5	5½	6	6¾	8½
Japanned Case, Finished Ring, price each	12.00	14.00	16.00	18.00	22.00
Japanned Case, Nickel Plated Ring, "	12.50	14.60	16.60	18.75	22.75
Bronzed Case, Nickel Plated Ring, "	14.00	16.50	18.60	21.00	25.50

With Brass Case and Ring.

Diameter of Dial, Inches	5	5½	6	6¾	8½	10	12
Finished Case and Ring, price each	14.00	16.00	19.00	22.00	30.00	40.00	80.00
Finished Case, Nickel Plated Ring, price each	14.50	16.50	19.60	22.75	30.75	41.00	81.50
Nickel Plated Case and Ring, "	15.00	17.50	21.00	24.00	33.00	43.00	85.00

For indicating Pressure of steam in lbs., and corresponding degrees of heat.

In ordering, state the greatest pressure to be carried.

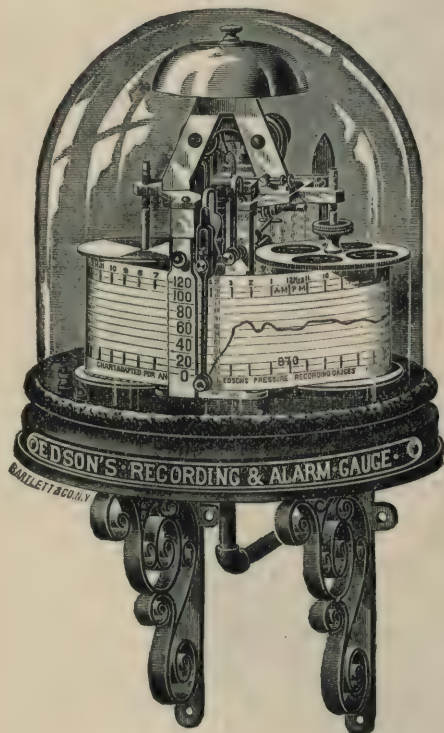
A Syphon must be used in connection with this Gauge.

Warranted for two Years if Syphon is used, not without.

The Edson Pressure-Recording Gauge.

STYLE No. 1.

Fig. 399.



STYLE No. 2.

Fig. 400.



THE FACTS ARE:

THAT the presence of an Edson Recording Gauge causes CAREFUL FIRING and STEADY STEAM, and INCREASES the EFFICIENCY OF ANY ENGINE OR BOILER.

THAT careful firing preserves a boiler and saves coal.

THAT steady steam secures an economical point of cut-off and steam economy from proper expansion in the cylinder.

THAT this steam is saved twice during each revolution.

THAT more work will be turned out, and its quality improved, when the steam and power are uniform.

THAT coal can be saved by frequent firing in small lots instead of large amounts at long intervals.

THAT you can distinguish between a good attentive man and a careless one by the record he makes.

THAT a fireman will be more proud of a good record than a poor one.

THAT he will be more careful when he finds you are careful and use an Edson Recording Gauge.

THAT when he makes a good record he works harder and saves coal, and should be paid accordingly.

THAT the steam boiler is a magazine of stored energy of enormous power, which those in charge, by reason of long immunity from accident, frequently under-estimate, and so grow careless and neglectful. In this they are not corrected, because their delinquencies go unrecorded, as the common indicating gauge reveals no secret when fires are "banked" and damper regulators do not work, and human dependence fails.

THAT the inattention to the firing, which allows the pressure to fluctuate 10 or 20 pounds frequently at short intervals, unnecessarily strains and weakens a boiler, and those guilty of such mismanagement are often the first to pay with their own lives, or property, the penalty of their temerity.

Fig. 399. With Adjustable Circuit Closer. For High Pressure, operating an Electric Bell on the Instrument.....	170.00
Fig. 400. With Adjustable High Pressure Circuit Closer. Operating an Electric Bell placed at a distance from the Instrument.....	160.00

Steam Gauge Cocks.

Fig. 401.

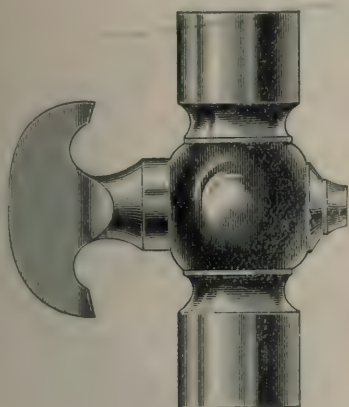


Fig. 402.

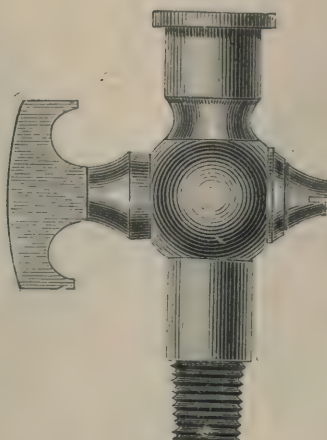
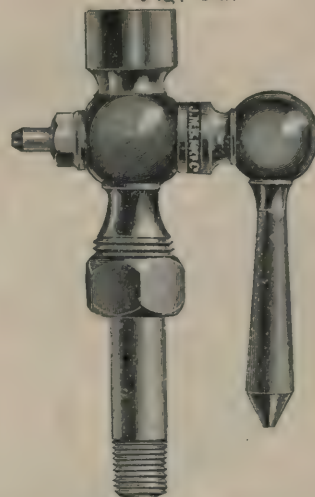


Fig. 403.



Description		Rough.	Finished.	N.Plated
Fig. 401, $\frac{1}{4} \times \frac{1}{4}$, T. H. Female.	Price Each	65	70	80
" 402, $\frac{1}{4} \times \frac{1}{4}$, T. H. Male and Female.	"	70	75	85
" 403, $\frac{1}{4} \times \frac{1}{4}$, L. H. With Union Coupling.	"		1.80	2.00

Steam Gauge Syphons.

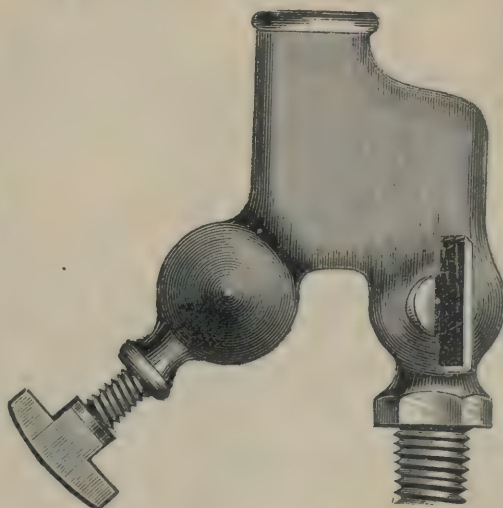
Syphon and Cock

Fig. 407.



Anti-Freezing Syphon and Steam Gauge Cock

Fig. 406.



Brass

Fig. 405.



$\frac{1}{4}$ Iron Pipe

Fig. 404.



Description		Rough.	Finished.	N.Plated.
Fig. 404, $\frac{1}{4}$ Iron Pipe, with Coupling.	Price Each.	50		
" 405, Brass, M. & F. $\frac{1}{4} \times \frac{3}{8}$.	"	75	1.25	1.50
" 406, Brass, Anti-Freezing, $\frac{1}{4} \times \frac{1}{4}$, with Drain Valve.	"	1.00	1.50	1.80
" 407, Brass, Syphon and Cock, $\frac{1}{4} \times \frac{1}{4}$, or $\frac{1}{4} \times \frac{3}{8}$.	"	1.00	1.50	1.80

Engineers' Clocks and Revolution Counters.

Fig. 408.

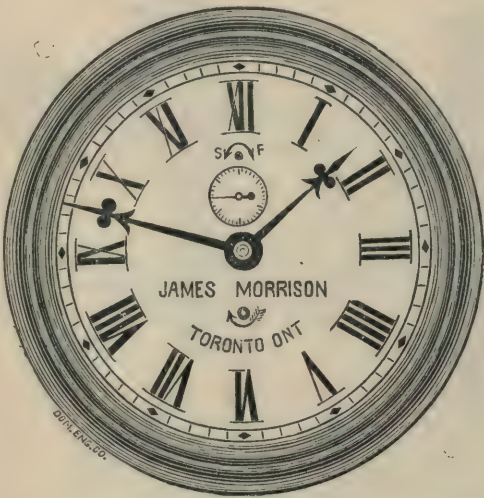


Fig. 409.

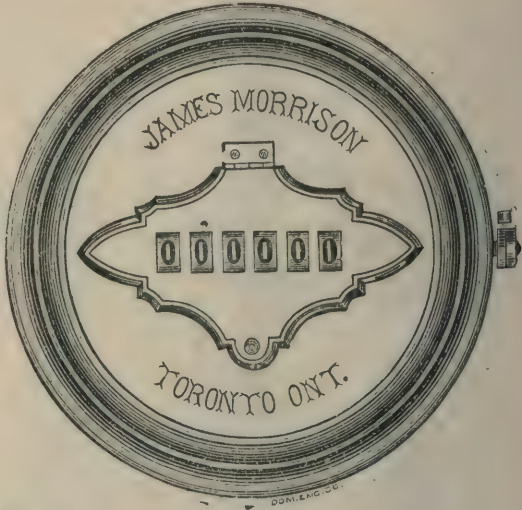


Fig. 408. Clock.

Size of Dial, inches.		5	6	6 $\frac{3}{4}$	8 $\frac{1}{2}$	10	12
8-Day, Plain Movement, Finished.	Price each	25.00	28.00	34.00	40.00	55.00	75.00
Brass Case and Ring, Plated.	"	28.00	31.50	38.00	45.00	60.00	80.00
8-Day, Jewelled Movement, Finished.	"	30.00	33.00	39.00	45.00	60.00	80.00
Brass Case and Ring, Nickel Plated.	"	33.00	36.50	43.00	50.00	65.00	85.00

Fig. 409. Revolution Counter.

Size of Dial, inches.		5	6	6 $\frac{3}{4}$	8 $\frac{1}{2}$	10	12
Iron Case, Brass Ring.	Price each	55.00	65.00	75.00	85.00	110.00	120.00
Brass Case and Ring, Finished.	"	60.00	70.00	80.00	90.00	115.00	125.00
" " " Nickel Plated.	"	64.00	75.00	85.00	95.00	115.00	125.00
Number of Wheels in Counter		6	6	7	8	7	8

Fig. 410. Revolution Counter—Square Pattern.



	SIZE.	PRICE EACH.
5 Figures on Face	8 x 2 $\frac{1}{4}$	\$12.00
6 Figures on Face	9 x 2 $\frac{1}{4}$	15.00

Engine Room Sets.

IN WALNUT FRAMES.

Fig. 411.



Fig. 412.

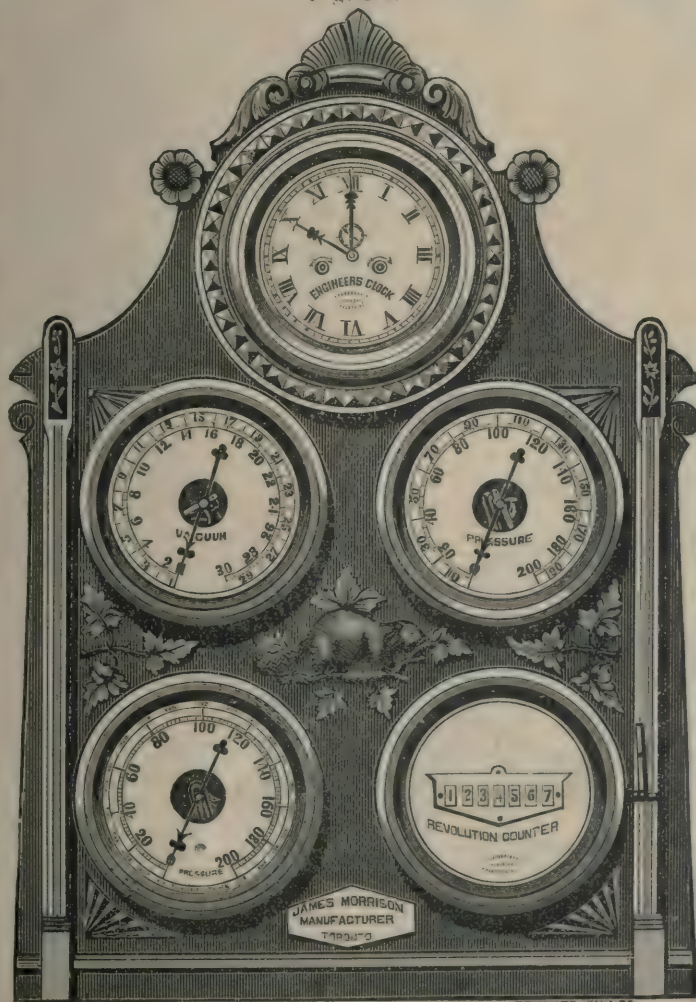


Fig. 411.

Fig. 412.

DESCRIPTION.	ENGINEER'S CLOCK	REVOLUTION COUNTER	PRESSURE GAUGE	VACUUM GAUGE	TEMPERATURE AND PRESSURE	PRICE PER SET WITH FRAMES, BRASS CASE	
						FINISH'D	N. PLAT'D
Fig. 412. Four Instruments	Dial	1	1	1	1	190.00	200.00
	63 81	1	1	1	1	225.00	242.00
	10	1	1	1	1	280.00	297.00
	12	1	1	1	1	420.00	440.00
Fig. 412. Five Instruments	Dial	1	1	1	1	210.00	225.00
	63 81	1	1	1	1	255.00	275.00
	10	1	1	1	1	320.00	340.00
	12	1	1	1	1	500.00	525.00
Fig. 411.	1	1	1	1	1	115.00	125.00
	1	1	1	1	1	145.00	155.00
	1	1	1	1	1	135.00	145.00
	1	1	1	1	1	165.00	175.00
Fig. 411.	1	1	1	1	1	160.00	170.00
	1	1	1	1	1	180.00	195.00

Pyrometers For Bakers Ovens, Etc.

**Vertical,
or Side Connection.**

Fig. 413.



**Horizontal,
or Back Connection.**

Fig. 414.

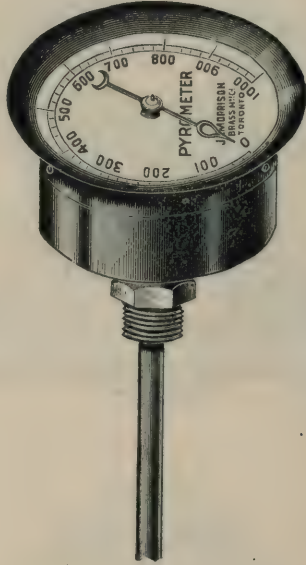
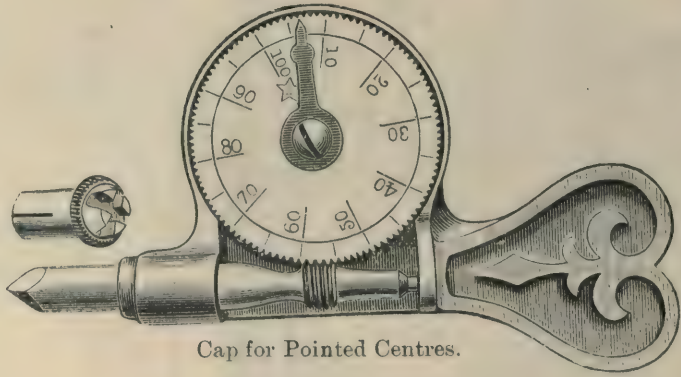


Fig. 413.	Pyrometer, Iron Case, Brass Ring, Vertical.	Price Each.....	\$20.00
" 414.	" " " " " Horizontal.	"	20.00

Speed Indicator.

Fig. 415.

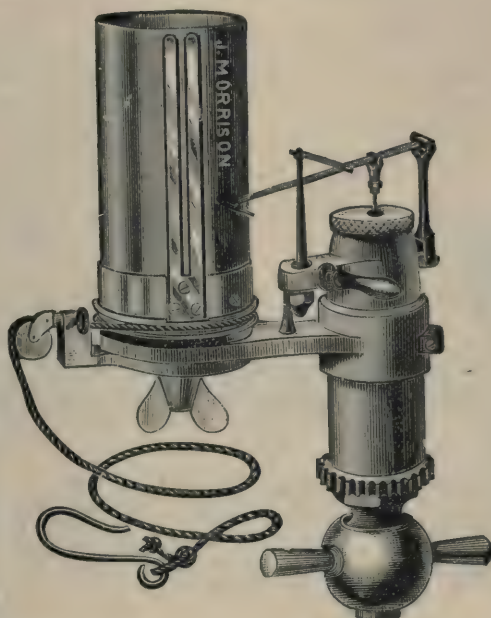


Cap for Pointed Centres.

With Cap For Pointed Centres.	Price Each	\$1.50
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The "Thomson" Steam Engine Indicator.

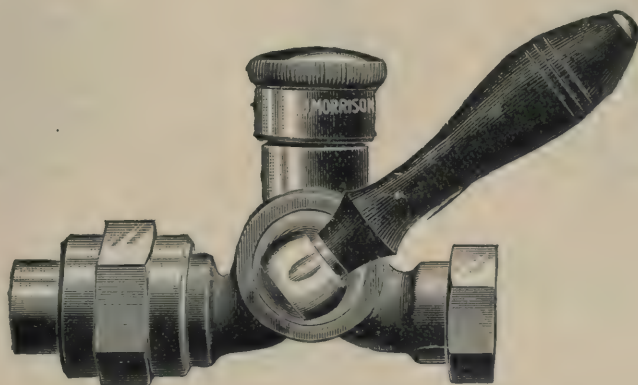
Fig. 416.



Indicator Complete with 2 Springs, 2 Scales, 1 Screw Driver,	{	Finished, price each.....	\$65.00
1 Wrench, 1 Bottle of Oil; all packed in Walnut Case		N. Plated, " "	75.00
with Plated Mountings.....			

Three-Way Cock For Steam Indicator.

Fig. 417.



With Wood Handle Finished Brass, price each.....	4.50
" " " Nickle Plated " "	5.00

The above cut illustrates a Three-Way Cock in which the steam follows easy bends instead of sharp angles as on ordinary Three-Way Cocks.

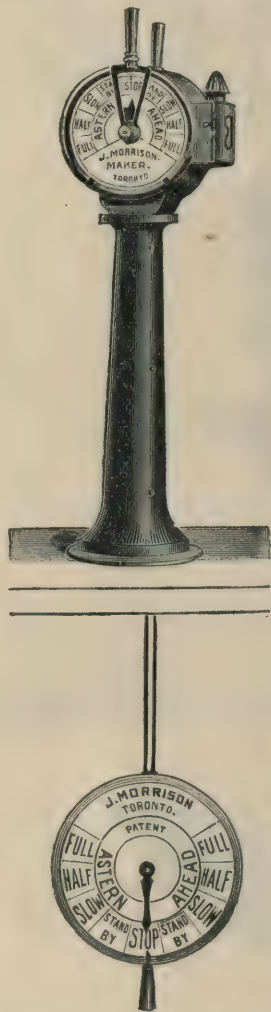
When a Three-Way Cock is used, diagrams from both ends of the cylinder are usually taken on the same card.

The Three-Way Cock is very convenient when only one indicator is to be used.

Steam-Ship Telegraphs.

Fig. 418.

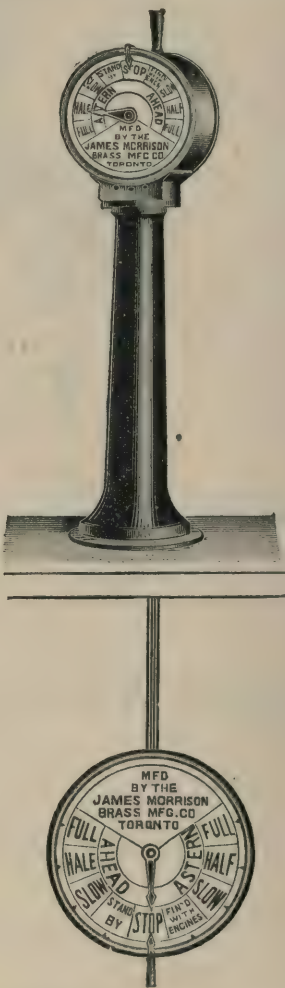
Patent Duplex Cong,
Fore and Aft Double Dial 10 Inches.



ENGINE ROOM INDICATOR,
Diam. of Dial, 15 Inches.

Fig. 419.

Repeating Cong.
Diam. of Dial 10 Inches.



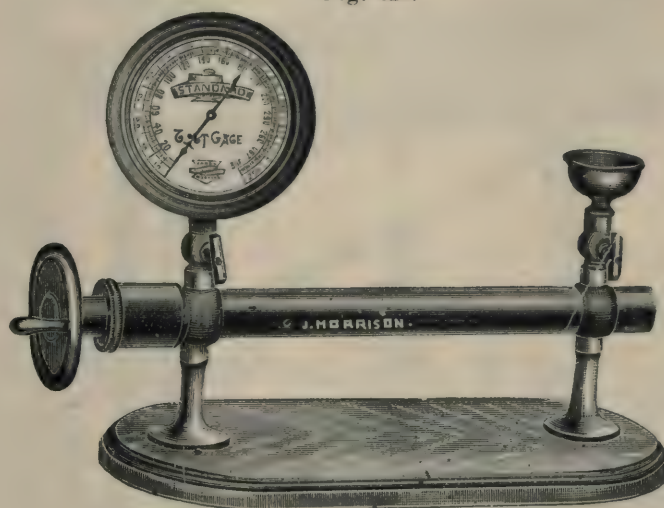
ENGINE ROOM INDICATOR AND REPEATER,
Diam. of Dial 15 Inches.

Fig. 418, with Cast Iron Pillar, Price Complete.....	210.00
“ 418, with Finished Brass Pillar, “	225.00
“ 419, with Cast Iron Pillar, “	210.00
“ 419, with Finished Brass Pillar, “	225.00

Hydraulic Screw Presses for Testing Steam Gauges.

Stationary Screw Press, Mounted on Stand.

Fig. 420.



Description.	FINISHED	N. PLATED
Mounted on Black Walnut Stand Without Test Gauge. Price each.....	33.50	35.00

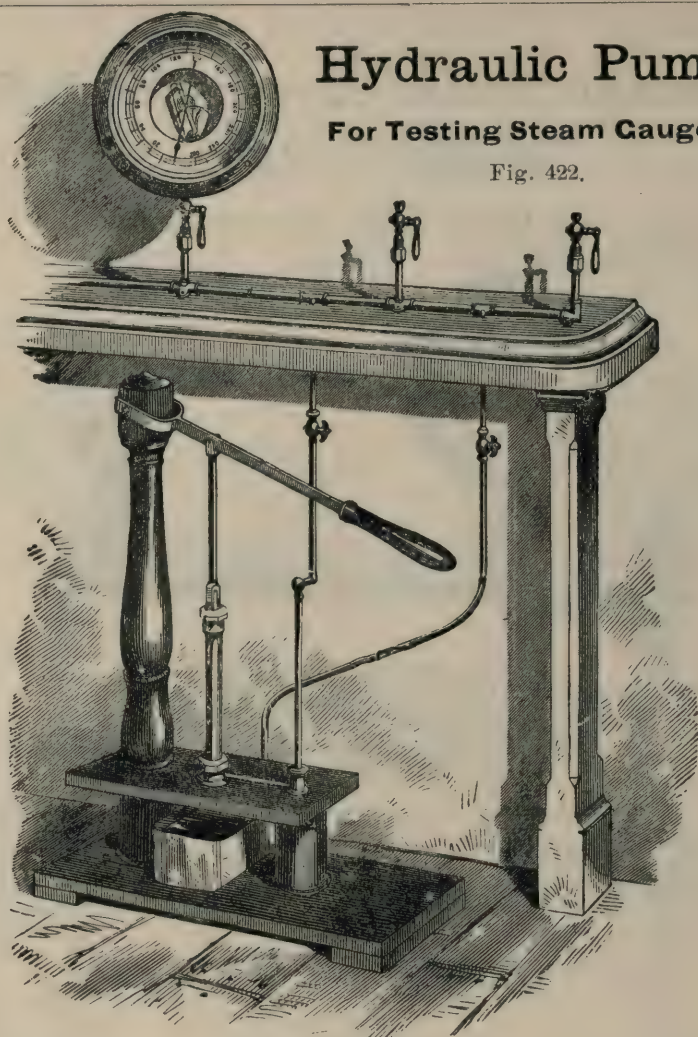
Portable Screw Press.

Fig. 421.



Description.	FINISHED	N. PLATED
Screw Press, Without Test Gauge. Price each.....	24.00	25.00

For Prices of Test Gauges see page 118, Fig. 395.



Hydraulic Pump.

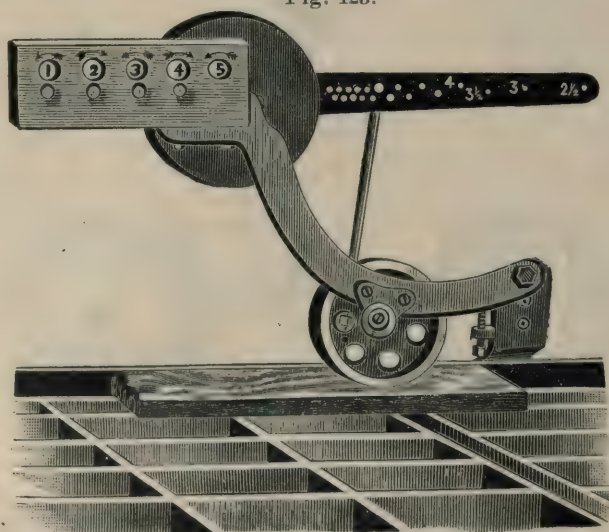
For Testing Steam Gauges.

Fig. 422.

Pump, Without Test Gauge.....	Price Each,	\$35.00
" With 8½ inch Test Gauge, Finished Brass Case.....	" "	60.00

Fig. 423.

**Lineal
and
Board
Measuring
Register**



**An
Attachment
For
Matchers
and
Stickers**

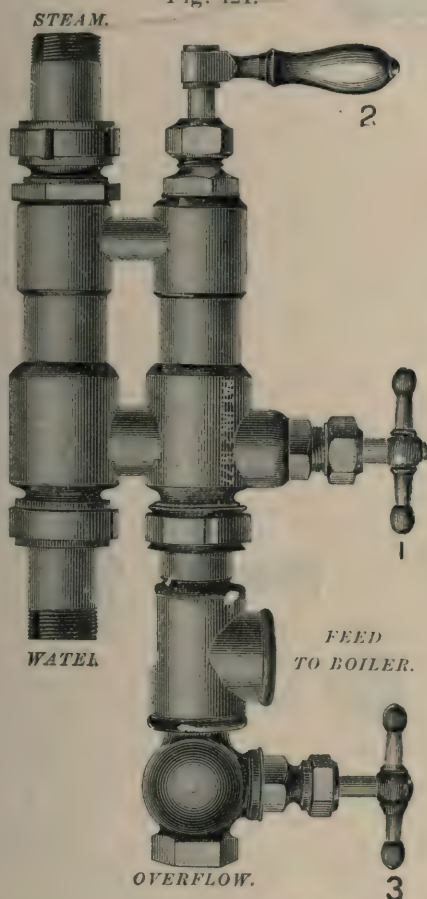
Price Each, \$24.00.

Full Instructions for Attaching and Operating will be sent with each Machine.

The "Hancock" Patent Inspirators.

For Stationary Boiler.

Fig. 424.



The One-Handle Improved "Hancock" Inspirator for Portable, Stationary, and Marine Boilers.

Fig. 425.

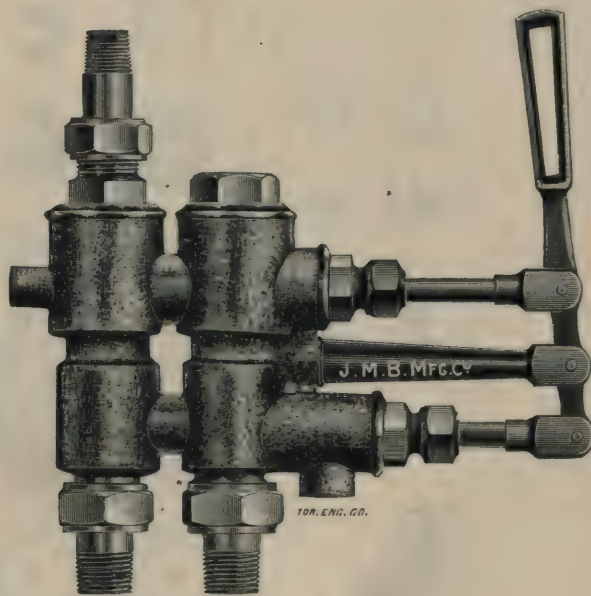


Fig. 424.—For Stationary Boilers.

No. of Inspirator.	Suction and Feed.	Steam.	Gals. per hour 60 lbs. Pressure 4 feet Lift.	Horse Power	PRICE.	No. of Inspirator.	Suction and Feed.	Steam.	Gals. per hour 60 lbs. Pressure 4 feet Lift.	Horse Power	PRICE.
No. 7 $\frac{1}{2}$	3 in.	1 in.	60	8	18.00	No. 25	1 $\frac{1}{2}$ in.	1 in.	900	120	60.00
" 8 $\frac{3}{4}$	3 in.	1 in.	90	12	20.00	" 30	1 $\frac{1}{2}$ in.	1 $\frac{1}{2}$ in.	1260	168	75.00
" 10	3 in.	1 in.	120	16	24.00	" 35	1 $\frac{1}{2}$ in.	1 $\frac{1}{2}$ in.	1740	230	90.00
" 12 $\frac{1}{2}$	3 in.	1 in.	220	30	30.00	" 40	2 in.	1 $\frac{1}{2}$ in.	2230	298	110.00
" 15	3 in.	1 in.	300	40	35.00	" 45	2 in.	1 $\frac{1}{2}$ in.	2820	376	125.00
" 17 $\frac{1}{2}$	1 in.	1 in.	420	56	45.00	" 50	2 $\frac{1}{2}$ in.	2 in.	3480	464	150.00
" 20	1 in.	1 in.	540	72	50.00	" 55	2 $\frac{1}{2}$ in.	2 in.	3600	600	175.00
" 22 $\frac{1}{2}$	1 $\frac{1}{2}$ in.	1 in.	720	96	55.00						

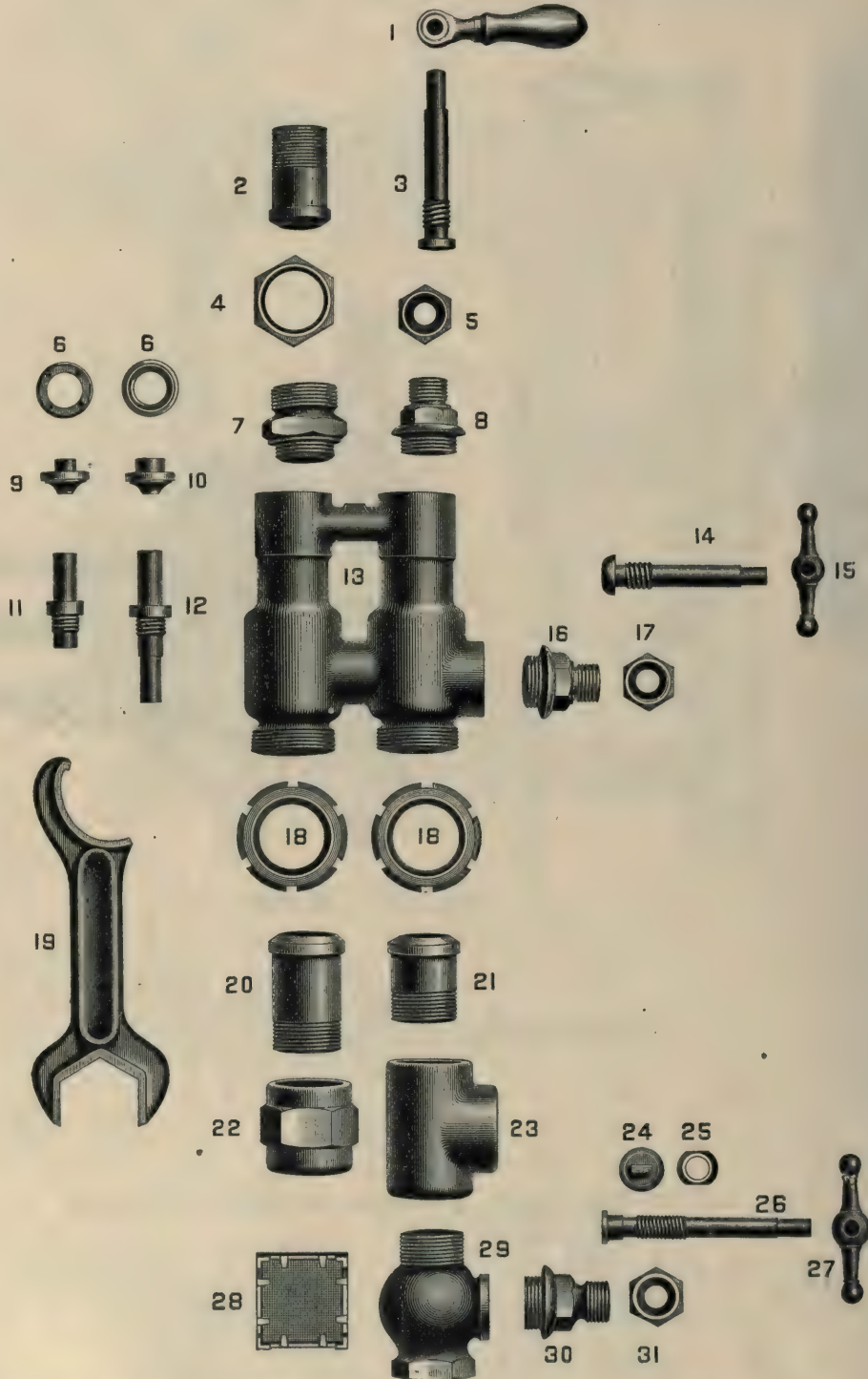
Fig. 425.—For Stationary, Portable or Marine Boilers.

No. of Inspirator.	Suction and Feed.	Steam.	Gals. per hour 60 lbs. Pressure 4 feet Lift.	Horse Power	PRICE.	No. of Inspirator.	Suction and Feed.	Steam.	Gals. per hour 60 lbs. Pressure 4 feet Lift.	Horse Power	PRICE.
No. 7 $\frac{1}{2}$	3 in.	1 in.	60	8	18.00	No. 15	1 in.	1 in.	...	...	...
" 8 $\frac{3}{4}$	3 in.	1 in.	90	12	20.00	" 17 $\frac{1}{2}$	1 in.	1 in.	...	...	...
" 10	3 in.	1 in.	120	16	24.00	" 20	1 in.	1 in.	...	...	...
" 12 $\frac{1}{2}$	3 in.	1 in.	...	...	...	" 25	1 in.	1 in.	...	...	...

The capacity of these Machines is in WINE GALLONS, and is estimated with a Four-foot Lift and 60 lbs. of Steam Pressure at sea level, and Barometer at 30 $\frac{1}{2}$ inches. With a greater Lift, or higher altitude, the capacity will be proportionately reduced.

List of Parts of the "Hancock" Inspirator.

Fig. 426.



Parts are shown as near as possible to their place in the Complete Inspirator, thus,—

Nos. 1, 3, 5 and 8, - - - - - together makes Top Bonnet Complete.

" 14, 15, 16 and 17, - - - - - " " Overflow " "

" 24, 25, 26, 27, 29, 30 and 31, " " " Valve " "

List of Parts and Prices for Repairs of "Hancock" Inspirators.

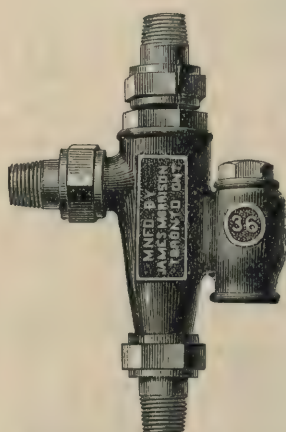
Nos.	NAME OF PARTS.	Nos. 7½ 8¾	Nos. 10 12½	No. 15	Nos. 17½ 20	Nos. 22½ 25	Nos. 30 35	Nos. 40 45	Nos. 50 55
1	Shank Handle.....	25	25	40	50	60	75	90	1.25
2	Steam Nipple.....	25	30	40	50	75	1.00	1.25	1.50
3	Long Stem.....	20	25	30	40	50	60	75	1.00
4	Steam Coupling.....	20	25	30	45	60	75	90	1.25
5	Packing Nut.....	15	20	30	35	45	55	65	80
6 & 6	Binding Rings.....	15	15	20	30	50	60	75	90
7	Union.....	35	40	50	75	85	95	1.20	1.50
8	Top Bonnet.....	35	40	45	70	80	90	1.00	1.20
9	Lifter Steam Jet.....	50	60	80	1.00	1.20	1.50	2.00	2.75
10	Forcer Steam Jet.....	50	60	80	1.00	1.20	1.50	2.00	2.75
11	Lifter Tube.....	70	90	1.20	1.50	2.50	3.50	4.50	6.00
12	Forcer Tube.....	70	90	1.20	1.50	2.50	3.50	4.50	6.00
13	Barrel.....	4.00	5.00	6.00	8.50	12.00	16.00	20.00	25.00
14	Short Stem.....	20	25	30	40	50	75	1.00	1.25
15	Ball Handle.....	20	20	25	25	35	45	55	75
16	Overflow Bonnet.....	25	35	40	45	60	75	1.00	1.25
17	Packing Nut.....	15	20	30	35	40	50	65	80
18 & 18	Suction and Feed Couplings..	25	30	45	50	65	80	1.00	1.25
19	Spanner Wrench.....			25	35	45	55	75	1.00
20	Suction Nipple.....	25	40	50	75	1.00	1.25	1.50	1.75
21	Feed Nipple.....	25	40	50	75	1.00	1.25	1.50	1.75
22	Suction Pipe Coupling.....	10	15	20	25	30	40	50	65
23	Tee.....	5	5	5	10	18	30	50	1.00
24	Overflow Valve Swivel.....				25	25	40	75	1.25
25	" " " Nut.....				15	15	25	40	60
26	" " Stem.....	25	25	35	50	75	1.00	1.25	1.50
27	" " Handle.....	20	20	25	25	35	45	55	75
28	Strainer.....	25	25	30	30	40			
29	Overflow Valve Body.....	60	75	1.00	1.35	1.75	2.50	3.50	5.00
30	" " Bonnet.....	25	35	40	45	60	75	1.00	1.25
31	" " Packing Nut.....	15	20	30	35	40	50	65	80

To Remove Scale from the Jets and Interior of Inspirator.

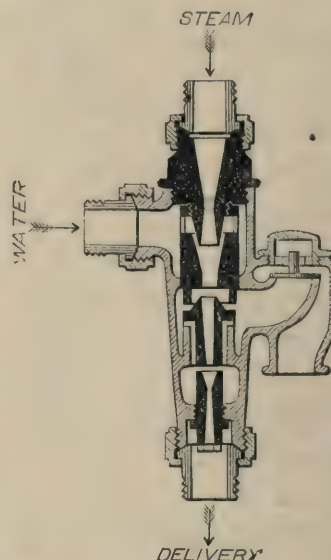
Disconnect Inspirator by unscrewing the Unions at "Steam," "Suction" and "Feed" connections, plug the bottom holes with corks, open valve No. 2, then fill the Inspirator with a solution of 1 part of Muriatic Acid to 2 parts of water, letting it remain for about one half hour, or until ebullition ceases, after which rinse thoroughly in clear water.

The "Gresham" Patent Automatic Re-Starting Injectors.

Fig. 427.



PATENTED IN CANADA NOV. 2, '85



Capacity and Price List.

NO.	Size of Pipe connections in inches		Gallons per hour at a Steam Pressure of		PRICE.	NO.	Size of Pipe connections in inches		Gallons per hour at a Steam Pressure of		PRICE.
	Steam.	Divy and Suction.	60 Lbs.	80 Lbs.			Steam.	Divy and Suction.	60 Lbs.	80 Lbs.	
24	$\frac{1}{2}$	$\frac{1}{4}$	100	125	20.00	72	$1\frac{1}{4}$	$1\frac{1}{4}$	720	825	55.00
30	$\frac{3}{4}$	$\frac{1}{2}$	140	160	24.00	84	$1\frac{1}{2}$	$1\frac{1}{2}$	885	1000	60.00
36	$\frac{1}{2}$	$\frac{1}{2}$	200	225	30.00	96	$1\frac{1}{2}$	$1\frac{1}{2}$	1200	1440	75.00
42	$\frac{3}{4}$	$\frac{3}{4}$	250	300	32.50	108	$1\frac{1}{2}$	2	1550	1725	90.00
48	$\frac{3}{4}$	$\frac{3}{4}$	300	390	35.00	120	2	2	1900	2175	110.00
60	1	1	440	510	45.00	...	..	..	....	....	.....
66	$1\frac{1}{4}$	$1\frac{1}{4}$	600	660	50.00	...	..	..	....	....	.....

Gresham's New Patent Automatic Re-Starting Injectors.

For Stationary, Portable and Marine Boilers.

These Injectors have taken first prize in the recent Inventor's Exhibition in England. Among their peculiar features, the following may be mentioned:

1. They are perfectly automatic and cannot fail to work, as soon as steam and water have been turned on.

2. They will work well at any steam pressure ranging from 20 to 150 lbs., and may be placed above or below the water supply; if above, they will lift water with certainty up to 17 feet.

3. They have no handles. A common globe valve on the steam pipe, to start the Injector, and another on the water pipe, to regulate the water supply, is all that is needed.

4. By their re-starting quality, they are enabled instantly to take up the feed water automatically, as soon as the supply, which may be temporarily interrupted, has been restored.

5. Take the steam from dome or top of Boiler.

6. The Nozzles can be taken out for cleaning purposes by unscrewing the end pieces.

Ejectors, or Steam Jet Pumps.

The "Hancock."

Fig. 428.



The "Gem."

Ejector and Steam Jet Pump with Interchangeable Jets.

Fig. 429.



Fig. 428. The "Hancock."

Number.	Suction and Feed.	Steam.	Galls. per hour.	PRICE.	Number.	Suction and Feed.	Steam.	Galls. per hour.	PRICE.
10	1 in.	3 in.	120	7.00	55	2 1/2 in.	1 1/4 in.	3600	50.00
15	1 1/4 in.	3 1/2 in.	300	10.00	60	3 in.	1 1/2 in.	4000	55.00
20	1 1/2 in.	4 in.	540	15.00	65	3 1/2 in.	2 in.	4520	60.00
25	1 3/4 in.	4 1/2 in.	900	20.00	70	4 in.	2 1/2 in.	5200	65.00
30	2 in.	5 in.	1260	25.00	75	4 1/2 in.	3 in.	6000	70.00
35	2 1/4 in.	5 1/2 in.	1743	30.00	100	6 in.	4 in.	10620	75.00
40	2 1/2 in.	6 in.	2230	35.00	110	6 1/2 in.	4 1/2 in.	12900	80.00
45	3 in.	6 1/2 in.	2876	40.00	120	7 in.	5 in.	15360	85.00
50	3 1/2 in.	7 in.	3480	45.00					

Fig. 429. The "Gem."

Description	Steam Connection.	Suction and Delivery.	Capacity per hour 60 lbs. Steam.	PRICE.
No. 1, Brass.....	1 in.	1 in.	250 gals.	8.00
" 2, ".....	1 1/4 in.	1 1/4 in.	500 "	10.00
" 3, ".....	1 1/2 in.	1 1/2 in.	960 "	15.00
" 4, ".....	1 3/4 in.	1 3/4 in.	1300 "	20.00
" 5, ".....	2 in.	2 in.	2000 "	25.00
" 6, ".....	2 1/4 in.	2 1/4 in.	3500 "	35.00
" 7, Iron Body, Brass Mounted.....	2 1/2 in.	2 1/2 in.	5000 "	40.00
" 8, ".....	3 in.	3 in.	8000 "	50.00

Capacity based on a 4 Feet Lift and 60 lbs. Steam.

Steam Whistles.

Without Valves.

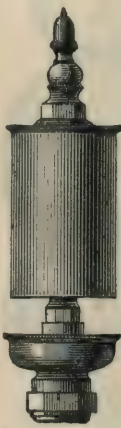
With Valves.

Fig. 430.

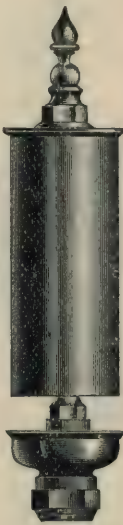
Fig. 431.

Fig. 432.

Fig. 433.



Short Bell.



Long Bell.



Short Bell.



Long Bell.

Figs. 430 & 431. Steam Whistles Without Valves.

Diameter of Bell, inches.....	1	1½	2	2½	3	3½	4	5	6	8	10
Length of Short Bell, inches....	2	3	4	5	6	7	8	10	12	16	20
Length of Long Bell, ".....	3	4½	6	7½	9	10½	12	15	18	24	30
Size of Pipe Connection.....	¾	1	1½	2	2½	3	3½	4	5	6	8
Fig. 430. Short Bell, price each..	1.70	2.50	3.25	4.50	6.00	8.50	11.00	18.00	24.00	65.00	125.00
" 431. Long Bell, " ".....	1.90	2.80	3.75	5.25	7.00	9.75	12.50	21.00	28.00	75.00	145.00

Fig. 432 & 433. Steam Whistles With Valves.

Diameter of Bell, inches.....	1	1½	2	2½	3	3½	4	5	6	8	10
Length of Short Bell, inches....	2	3	4	5	6	7	8	10	12	16	20
Length of Long Bell, ".....	3	4½	6	7½	9	10½	12	15	18	24	30
Size of Pipe Connection.....	¾	1	1½	2	2½	3	3½	4	5	6	8
Fig. 432. Short Bell, price each..	3.50	4.00	4.75	6.50	8.00	11.00	14.00	22.00	30.00	80.00	175.00
" 433. Long Bell, " ".....	3.70	4.80	5.25	7.25	9.00	12.25	15.50	25.00	34.00	90.00	195.00

NOTE.—Whistles with *Longer* Bell than the above made to order.

In ordering be particular and give the Figure wanted, as *short* bells will always be sent when not otherwise specified.

When for high pressure steam give pressure for whistle to be tested.

Steam Whistles.

Single Bell Chime.

THREE CHAMBER.

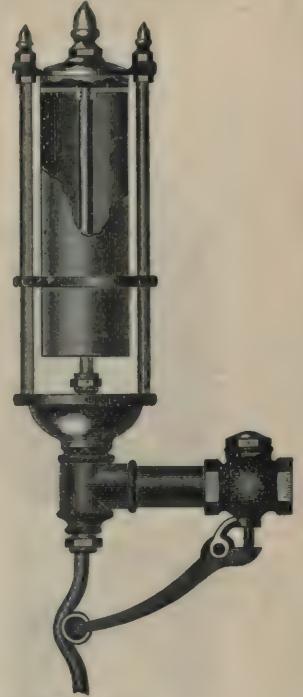
Fig. 435.



Piston Whistles.

MOCKING BIRD.

Fig. 436.



Single Bell Chime.

TWO CHAMBER.

Fig. 434.



Fig. 434. Two Chamber Single Bell Chime Steam Whistle.

Diameter of Bell, Inches.....	1½	2	2½	3	4
Length of Bell, Inches.....	6	8	10	12	16
Size of Iron Pipe Connection.....	½	½	½	¾	1
Without Valve, Price each.....	5.00	6.00	8.00	11.00	18.00
With Valve.....	6.50	7.50	10.00	13.00	21.00

Fig. 435. Three Chamber Single Bell Chime Steam Whistle.

Diameter of Bell, Inches.....	3	4	5	6	8	10
Length of Short Bell, Inches.....	6	8	10	12	16	20
Length of Long Bell, Inches.....	9	12	15	18	24	30
Size of Iron Pipe Connection.....	¾	1	1¼	1½	2	3
Short Bell, without Valve, Price each.....	8.00	14.00	22.00	30.00	70.00	110.00
Short Bell, with Valve.....	11.00	18.00	28.00	38.00	90.00	140.00
Long Bell, without Valve.....	10.00	17.00	27.00	36.00	85.00	130.00
Long Bell, with Valve.....	13.00	21.00	33.00	44.00	105.00	160.00

Fig. 436. Piston Steam Whistle, Mocking Bird Pattern.

Diameter of Bell, Inches.....	3	3½	4	5	6
Length of Bell, Inches.....	9	10½	12	15	18
Size of Iron Pipe.....	¾	¾	1	1¼	1½
With Valve, Price each.....	40.00	46.00	53.00	70.00	95.00

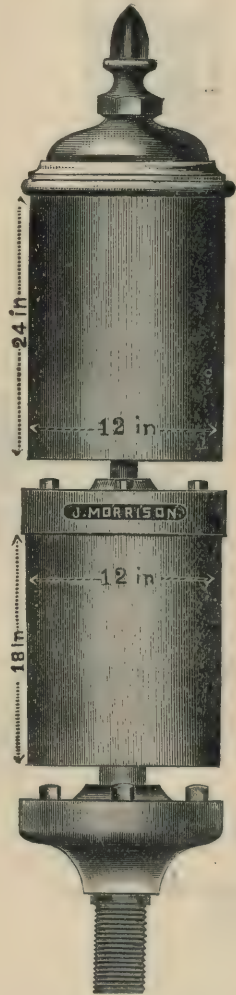
Fig. 434 and 435 are adapted for any purpose where a Steam Whistle is used.

Fig. 436 Is specially adapted for Steamboats, Fog Signals, Fire Alarms, Etc., Etc.

Steam Whistles.

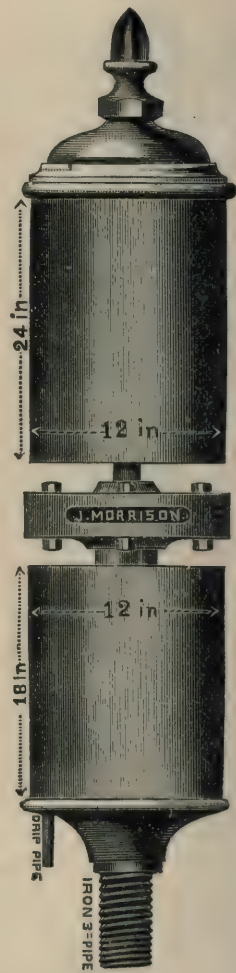
Double Bell Chime
Steam Whistle.

Fig. 437.



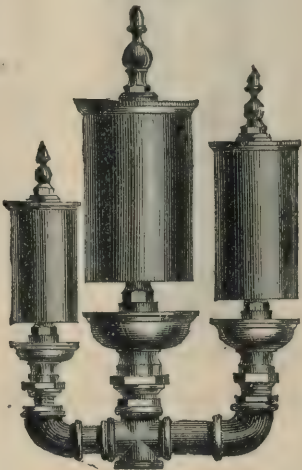
The Harmonium Double
Bell Steam Whistle.

Fig. 438.



Three Bell
Combination
Whistle Chimes.

Fig. 439.



Figs. 437 and 438. Double Bell Steam Whistles.

Diameter of Bell, Inches.....	6	8	10	12
Length of Bottom Bell, Inches.....	10	12	15	18
Length of Top Bell, Inches.....	14	16	20	24
Size of Iron Pipe Connection, Inches.....	1½	2	2½	3
Without Valve, price each.....	80.00	100.00	140.00	210.00

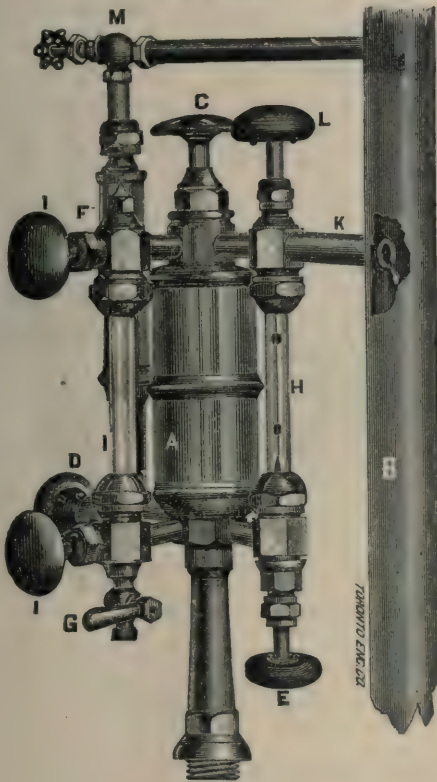
Fig. 439, Three-Bell Combination Whistle Chimes, any number or size of Bells to order.
Prices on application.

Automatic Cylinder Lubricator.

For Stationary or Marine Engines.

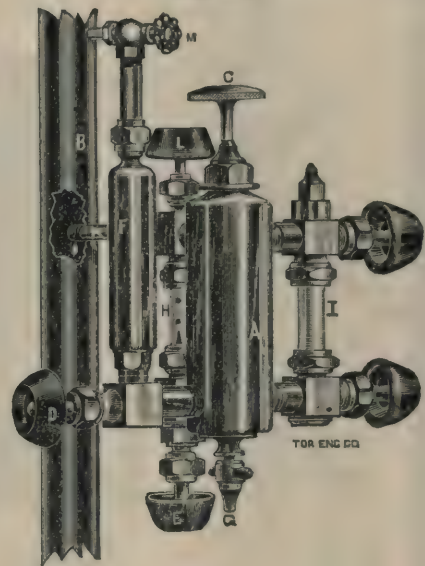
WITH STANDARD.

Fig. 440.



WITHOUT STANDARD.

Fig. 441.



Size or Capacity of Cup.....		$\frac{1}{4}$ Pint	$\frac{1}{2}$ Pint	1 Pint	1 Quart	
Size of Glass in Sight Feed.....		.....	$\frac{3}{4} \times 2\frac{5}{8}$	$1 \times 3\frac{1}{2}$	$1 \times 4\frac{1}{4}$
Size of Glass in Water Gauge.....		.....	$\frac{3}{4} \times 3$	$\frac{3}{4} \times 6\frac{5}{8}$	$\frac{3}{4} \times 7\frac{5}{8}$
Fig. 440 & 441	{	Finished, - - Price each.....	17.00	22.00	30.00	45.00
		Nickel Plated " "	20.00	25.00	35.00	50.00

The Pint Cup is made with or without Standard. The Quart Cup with Standard.

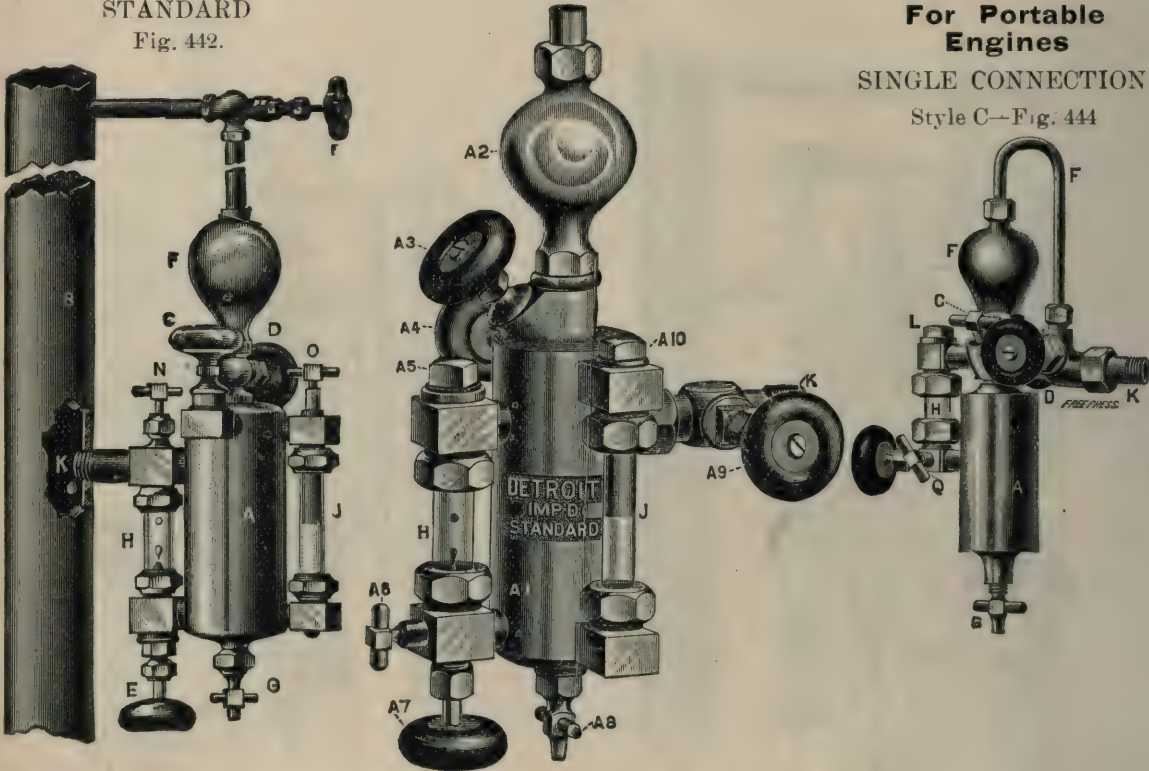
Automatic Cylinder Lubricators.

The "DETROIT,"

For Stationary Engines.

IMPROVED
Fig. 443

STANDARD
Fig. 442.



Figs. 442 & 443.—Standard and Improved.

For Portable
Engines
SINGLE CONNECTION
Style C—Fig. 444

Size	$\frac{1}{2}$ Pint	$\frac{1}{2}$ Pint	Pint	Quart	$\frac{1}{2}$ Gal.
Size of Glass in Sight Feed	$\frac{5}{8} \times 2$	$\frac{3}{4} \times 3$	$\frac{3}{4} \times 3$	$\frac{3}{4} \times 3\frac{1}{4}$	$\frac{3}{4} \times 3\frac{1}{4}$
Size of Glass in Water Gauge	$\frac{5}{8} \times 2$	$\frac{5}{8} \times 3\frac{1}{4}$	$\frac{5}{8} \times 4\frac{1}{8}$	$\frac{5}{8} \times 4\frac{7}{16}$	$\frac{5}{8} \times 6\frac{3}{4}$
Fig. 442, Standard, Finished, Price each	17.00	22.00	30.00	45.00	60.00
" " " N. Plated, " "	20.00	25.00	35.00	50.00	65.00
Fig. 443, Improved, Finished, " "	17.00	22.00	30.00	45.00	60.00
" " " N. Plated, " "	20.00	25.00	35.00	50.00	65.00

Fig. 444. Style C. For Portable Engines.

Size	$\frac{1}{4}$ Pint	$\frac{1}{3}$ Pint	$\frac{1}{2}$ Pint
Size of Glass in Sight Feed	$\frac{3}{4} \times 2\frac{1}{8}$	$\frac{3}{4} \times 2\frac{1}{8}$	$\frac{3}{4} \times 2\frac{1}{8}$
Single Connection			
Style C.			
{ Rough, price each	14.00	16.00	19.00
{ Finished, " "	15.00	17.00	20.00
{ N. Plated, " "	18.00	20.00	23.00

Automatic Sight Feed Cylinder Lubricators.

"The Simplex."

Fig. 445.

**Automatic
Sight Feed Lubricator**

**The "Empress"
The "J.M.T."**

See Page 607.

The "Toronto."

Fig. 446.

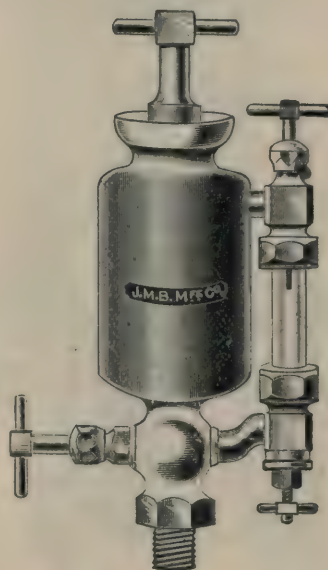


Fig. 445. **The "Simplex" Sight Feed Lubricator.**

Sizes and Capacity	$\frac{1}{3}$ Pint	$\frac{1}{2}$ Pint	1 Pint
Finished, Price each	8.00	10.50	15.00
Nickel Plated " "	9.00	12.00	16.50

Note.—Full directions for connecting and operating the Simplex Lubricator, accompany each Machine.

Fig. 446. **The "Toronto" Sight Feed Lubricator.**

Capacity of Cups, In Pints	$\frac{1}{3}$ Pint	$\frac{1}{2}$ Pint	1 Pint
Size of Pipe Connection	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Finished Price each	4.50	5.00	8.00
Nickel Plated " "	5.00	6.00	9.00

REFERENCES TO FIG. 445, THE "SIMPLEX."

- | | | |
|---------------------|----------------------|-------------------------|
| A. Body of the Cup | D. Filling Plug | G. Condensing Pipe with |
| B. Drain Cock | E. Oil Outlet Valve | Elbow, or Angle Valve |
| C. Sight Feed Glass | F. Water Inlet Valve | and Union |
| | | H. Steam Pipe |

Automatic Sight Feed Lubricators.

The "Improved" Double Sight Feed Lubricator.

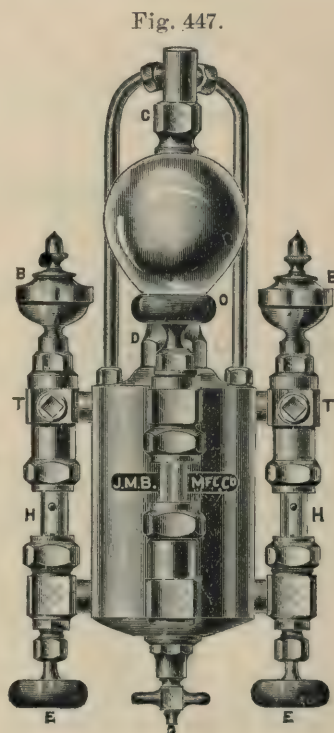


Fig. 447. Improved Double Sight Feed Lubricator.

Automatic Boiler Oil Injector.

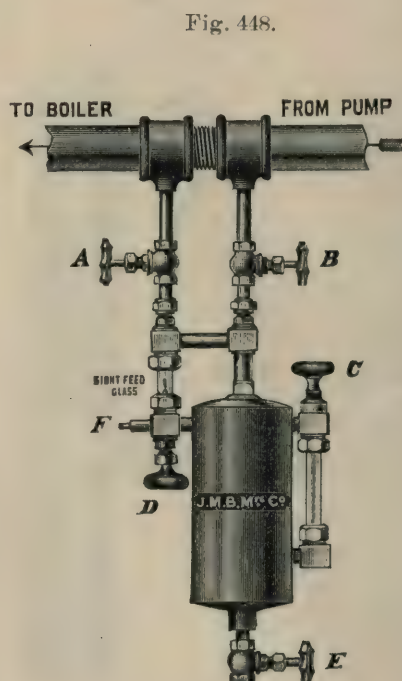


Fig. 448.

Size, or Capacity of Cup.....	1 Quart.
Size of Glass in Sight Feeds.....	1 x 3½
Size of Glass in Water Gauge.....	1 x 3½
Finished, price each.....	75.00
N. Plated, " "	80.00

Fig. 448. Automatic Boiler Oil Injector.

Size or Capacity of Cup.....	1 Pint	1 Quart	½ Gallon	1 Gallon
Finished, price each.....	30.00	40.00	50.00	60.00

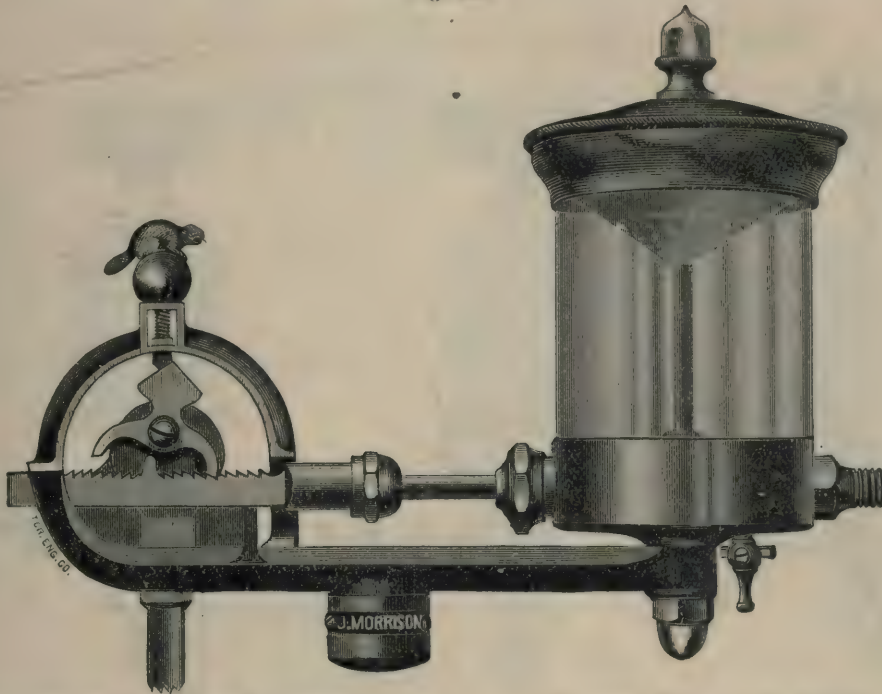
NOTE.—The Automatic Boiler Oil Injectors are used for Feeding Kerosene Oil by the drop along with the Feed Water for the Removal and Prevention of Scale in Steam Boilers.

A card, containing Full Instructions for the connecting and operating the Double Sight Feed Lubricator and the Boiler Oil Injector, will be packed in the box with each machine.

Automatic Lubricators.

Automatic Oil Pumps For Horizontal and Vertical Engines.

Fig. 449.

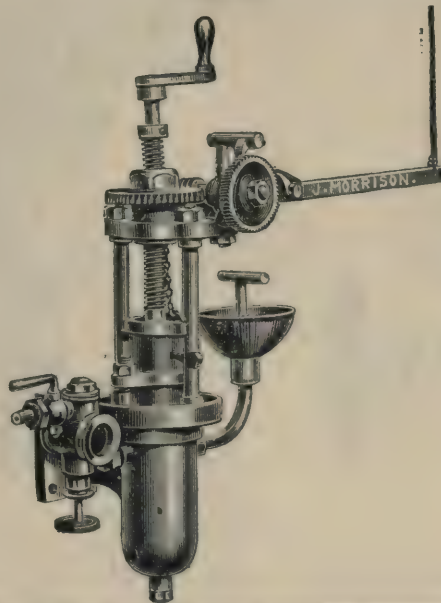


Price complete with two $\frac{3}{4}$ Check Valves.

Finished \$28.00; N. Plated \$30.00.

The "Vulcan" Patent Automatic Compression Lubricator.

Fig. 450.



Number	1	2
Capacity in ounces	6 oz.	13 oz.
Cups, price each	35.00	40.00
Sight Feed, extra	4.00	4.00

NOTE.—Instructions for connecting and operating accompanies each Machine.

Cylinder Lubricators.

With Patent Metallic Disc, Cap and Drain Valve.

Fig. 451.

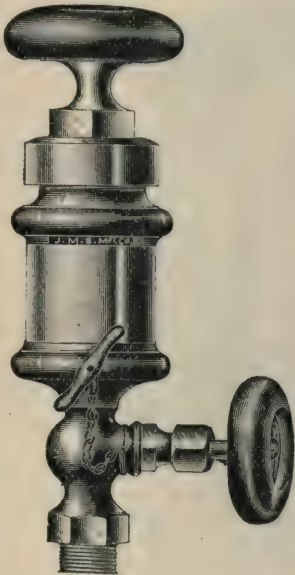


Fig. 452.

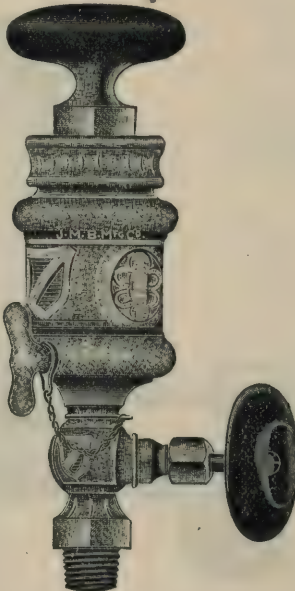


Fig. 453.

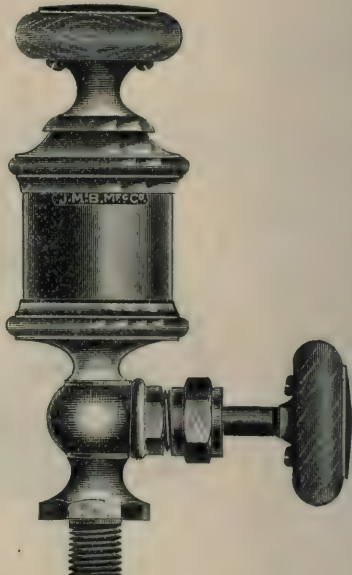
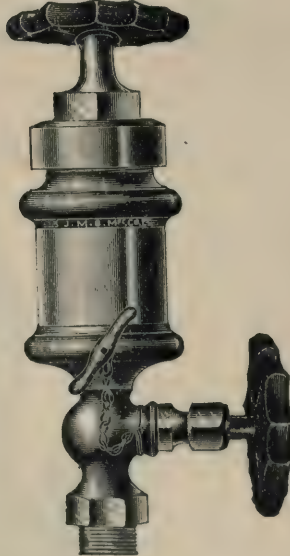


Fig. 454.



Fig. 455.



Diameter of Cup, Inches	1	1 1/4	1 1/2	2	2 1/2	3	4
Size of Shank, Screwed, Iron Pipe Thread	3/8	3/8	3/8	1/2	1/2	3/4	3/4
Fig. 451, with Wood Wheels, Price each	3.25	3.75	4.75	5.75	7.25
" 452, " " " "	2.75	3.50	4.50	.....	.....
" 453, " " " "	2.00	2.20	.....	.....	.....	.....	.....
" 454, " Iron " "	2.75	3.50	4.50	.....	.....
" 455, " " " "	3.25	3.75	4.75	5.75	7.25

Patent Hand Cylinder Oil Pumps.

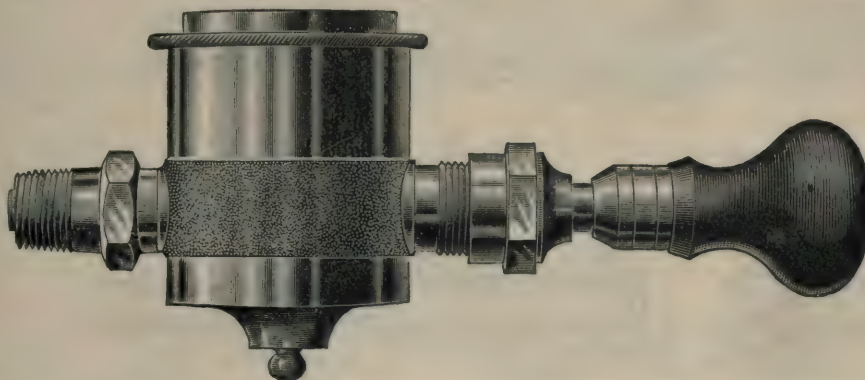
Fig. 456.



Capacity - - - - -	$\frac{1}{2}$ Pint	1 Pint
Finished Mountings, Rough Body, Price each - - - - -	9.00	15.00
Plated all over, - - - - -	10.00	16.50

Case's Patent Hand Cylinder Oil Pump.

Fig. 457.



Number - - - - -	1	2	3	4
Size of Bowl, Inches - - - - -	$2\frac{1}{4} \times 2\frac{1}{4}$	$2\frac{1}{2} \times 2\frac{1}{2}$	$2\frac{3}{4} \times 2\frac{3}{4}$	$3\frac{1}{2} \times 3\frac{1}{2}$
Capacity - - - - -	$\frac{1}{4}$ Pint	$\frac{1}{3}$ Pint	$\frac{1}{2}$ Pint	1 Pint
Finished, Price each - - - - -	3.50	4.25	5.00	7.50
Nickel Plated - - - - -	4.00	5.00	6.00	8.50

A perfect working device for Cylinder Lubricating. Always ready, and not liable to get out of order.

These Pumps are provided with hardened steel Ball Valves, which are well known to be the most perfect, and freest acting Check Valve known to the mechanical world.

They have no springs to hold the Valves on their seats, as pumps with springs are continually getting out of order.

The Ball Valves are constantly turning by use, thus presenting a clean surface on the seats at each stroke of the pump, keeping the valve and seat free from gum and dirt.

Felthousen's Cylinder Hand Oil Pumps.

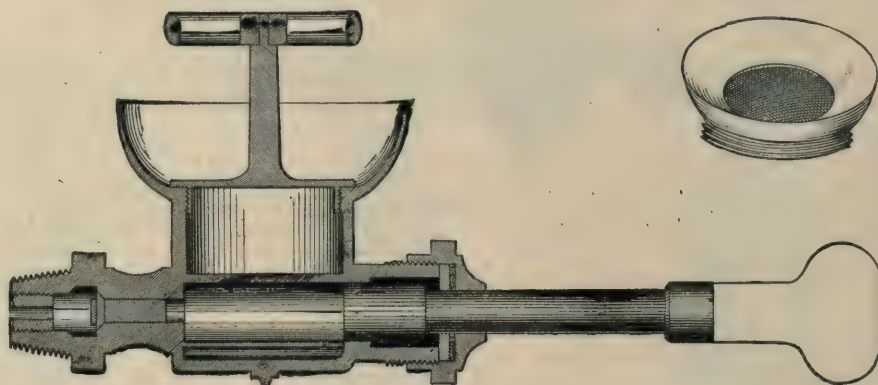
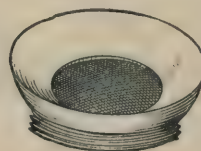
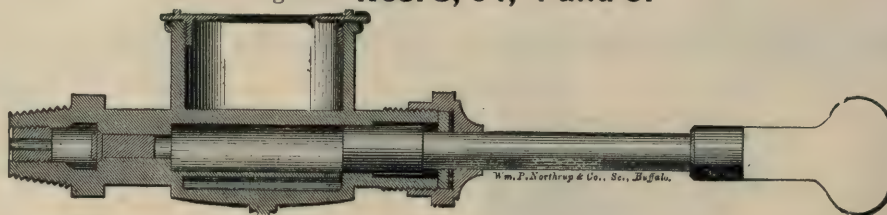
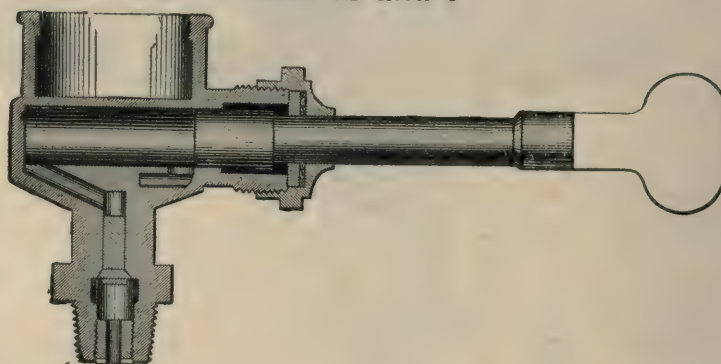
Fig. 458 **No. 2**Fig. 459—**Strainer.**Fig. 460 **Nos. 3, 04, 4 and 5.****Coupling Check Valve.**Fig. 461. **Nos. 03 and 6**

Fig. 462.



DESCRIPTION	Size, Inches	PRICE EACH		
		With Screw Top.	With Strainer Top.	Fig. 459, Strainer Tops Only.
Fig. 458 No. 2, Finished, with Bowl for Tallow	2 x 2	5.00	5.00	.30
" 460 No. 3, " without Bowl	2 x 2	3.50	3.65	.40
" 460 No. 04, " " "	2 3/4 x 2 3/4	5.00	5.25	.60
" 460 No. 4, " " "	3 1/2 x 3 1/2	7.50	7.80	.75
" 460 No. 5, " " "	7 x 4 1/2	12.00	12.00	...
" 461 No. 03, " " "	2 x 2	3.50	3.65	.40
" 461 No. 6, " " "	2 3/4 x 2 3/4	5.00	5.25	.60
" 462 Coupling Check Valve	- - -	- - -	Price each, 75 Cents	

Hand Cylinder Oil Pumps.

Sherwood's Patent Hand Cylinder Oil Pump.

Fig. 463.

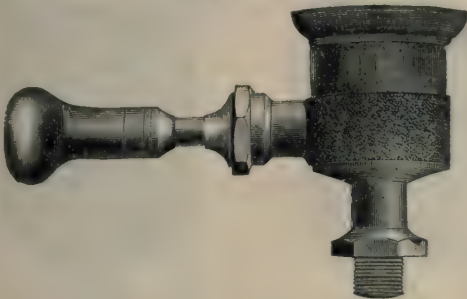
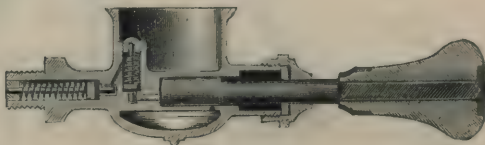


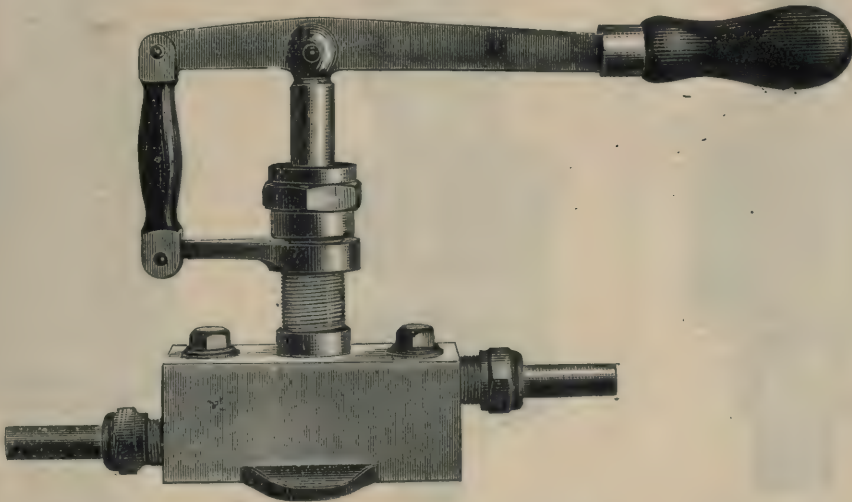
Fig. 464.



Number	1	2	3	4
Size of Bowl, Inches.....	$2\frac{1}{4} \times 2\frac{1}{4}$	$2\frac{1}{2} \times 2\frac{1}{2}$	$2\frac{3}{4} \times 2\frac{3}{4}$	$3\frac{1}{2} \times 3\frac{1}{2}$
Capacity	$\frac{1}{4}$ Pint	$\frac{1}{3}$ Pint	$\frac{1}{2}$ Pint	1 Pint
Fig. 463 & 464 { Finished, price each.....	3.50	4.25	5.00	7.50
{ N. Plated, " "	4.00	5.00	6.00	8.50

New Pattern, Square Body, Hand Cylinder Oil Pump.

Fig. 465.



Finished, price each.....	\$16.00
N. Plated, " "	\$17.00

Compression Grease Cups.

Piston Grease Cups With Leather Plungers

Fig. 470.



Fig. 469.



Fig. 468.



Fig. 467.



Fig. 466.



No. 1.

No. 2.

No. 3.

No. 4.

No. 5.

Number of Cup.....	No. 1.	No. 2.	No. 3.	No. 4.	No. 5.
Outside Diam. of Cup, Inches.....	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{3}{8}$	2 $\frac{3}{4}$
Finished, price each.....	1.50	2.00	2.50	3.00	3.75
N. Plated, ".....	1.75	2.25	2.80	3.35	4.25

Fig. 471.

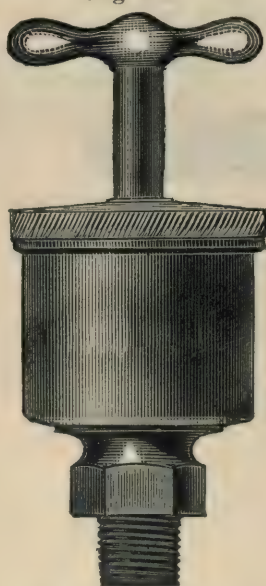


Fig. 472.

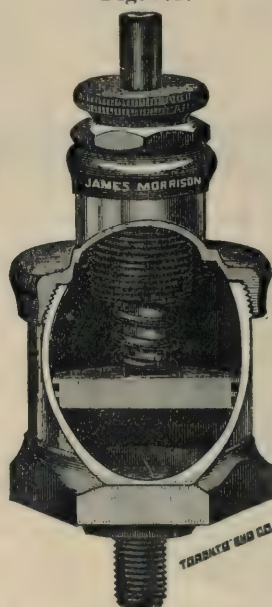
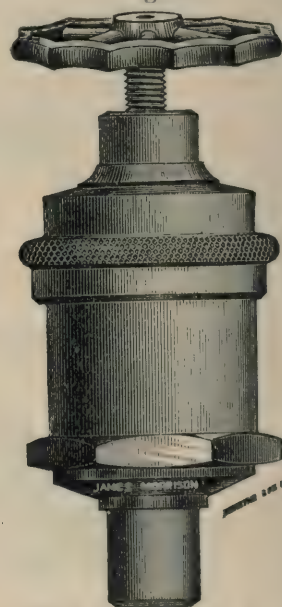


Fig. 473.



With Screwed Piston.

With Locknut and Spring Spindle.

With Screwed Spindle.

Diameter of Cup, Inches.....	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	4
Shank Screwed for Iron Pipe, Size.....	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$ or $\frac{3}{4}$	$\frac{1}{2}$ or $\frac{3}{4}$	$\frac{3}{4}$
Fig. 471, Finished, price each.....	1.50	1.80	2.25	2.75	3.50	4.50	6.00
" 471, N. Plated, ".....	1.70	2.00	2.50	3.00	3.80	5.00	6.50
" 472, Finished, ".....	2.40	2.65	3.00	3.75	4.75	6.00	9.00
" 472, N. Plated, ".....	2.65	2.90	3.30	4.15	5.15	6.50	9.60
" 473, Finished, ".....	2.40	2.65	3.00	3.75	4.75	6.00	9.00
" 473, N. Plated, ".....	2.65	2.90	3.30	4.15	5.15	6.50	9.60

Compression Grease Cups.

Cast Iron Cup.

Fig. 474.



Grease Swivels.

No. 1
Fig. 475.



No. 2
Fig. 476.



No. 3
Fig. 477.



Fig. 474	Cast Iron Cup, Nickel Plated, 8 x 3½ Inches,	Price each	-	-	-	-	-	13.00
Figs. 475 & 476.	Grease Swivel with Steel Tail pieces,	"	"	-	-	-	-	4.00
"	"	"	"	Brass	"	"	"	2.00
Fig. 477	No. 3. Brass Tee Piece	-	-	-	-	"	"	2.00

The "Besley" Patent Grease Cup.

Fig. 478.

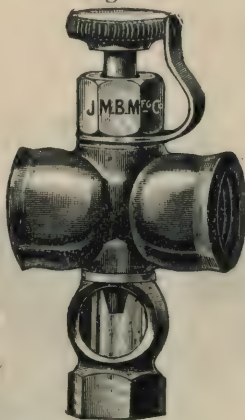


Diameter of Cup, Inches	-	-	-	-	1½	1½	2	2½
Size of Iron Pipe Connection	-	-	-	-	¼	¾	½	½
Rough, Price each	-	-	-	-	70	80	1.20	1.60
Finished " "	-	-	-	-	90	1.00	1.50	2.00

Oiling Devices.

Sight Feed Valves, Drip Valves, Wiper Cups, Etc., Etc.
For High Speed Engines.

Fig. 479.



Straight Sight Feed Valve.

Fig. 480.



Angle Sight Feed Valve.

Fig. 481.

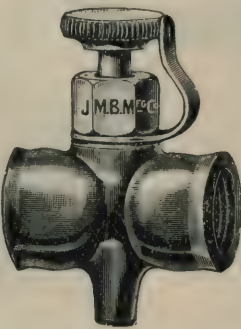
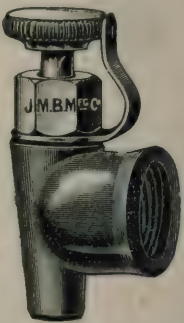


Fig. 482.



Angle Drip Valve.

Fig. 483.



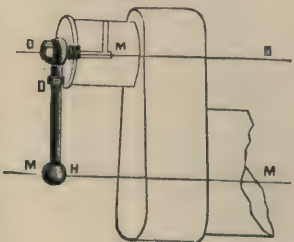
Adjustable
Wiper Cup for Wick.

Fig. 484.



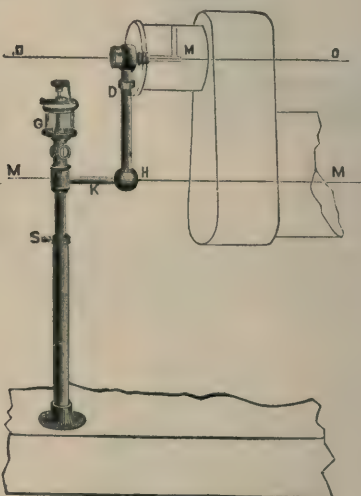
Drip Trough.

Fig. 485.



Plain Oiler Arm.

Fig. 486.



Adjustable Crank Pin Oiler

Description	FINISHED.		N. PLATED.	
	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 479, Straight Sight Feed Valve, price each	2.25	2.40	2.50	2.65
" 480, Angle, " " " "	2.00	2.15	2.25	2.40
" 481, Straight Drip Valve " "	1.50	1.65	1.75	1.90
" 482, Angle " " " "	1.25	1.40	1.50	1.65
" 483, Wiper Cup for Wick " "	2.50	2.65	3.00	3.15
" 484, Drip Trough 5 inches long " "	1.50	1.50	2.00	2.00

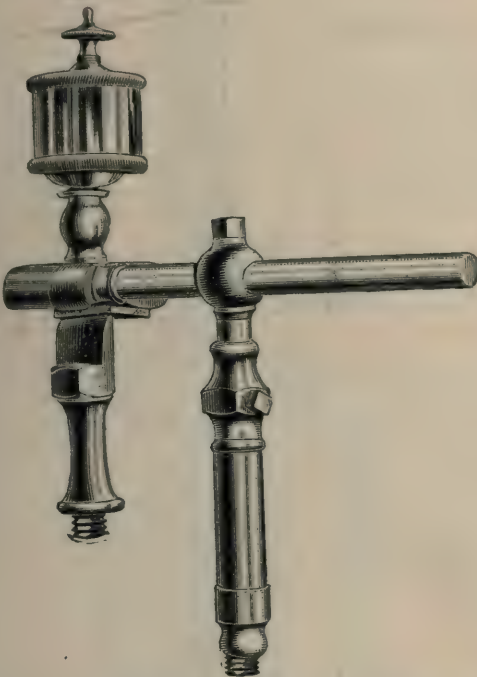
Figs. 485 and 486. Plain Oiler Arm and Adjustable Crank Pin Oiler.

Number	1		2		3	
Length of Stroke	Up to 16 inches		Up to 30 inches		Up to 60 inches	
Thread on Bolt (O) Pipe Thread	$\frac{3}{8}$ inch		$\frac{3}{8}$ inch		$\frac{1}{2}$ inch	
Description	FINISHED	PLATED	FINISHED	PLATED	FINISHED	PLATED
Fig. 485, Plain Oiler Arm, price each	6.00	7.00	7.00	8.00	9.00	11.00
" 486, Complete with Arm, Stand & Cup	15.00	18.00	17.00	20.50	21.00	25.00

Patent Crank Pin Oil Cups.

With Wiper.

Fig. 487.



With Regulating Valve.

Fig. 488.

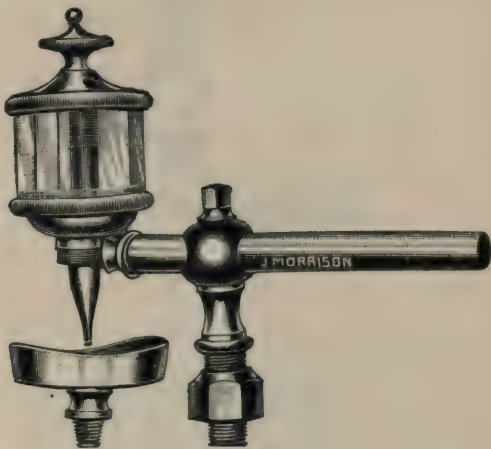
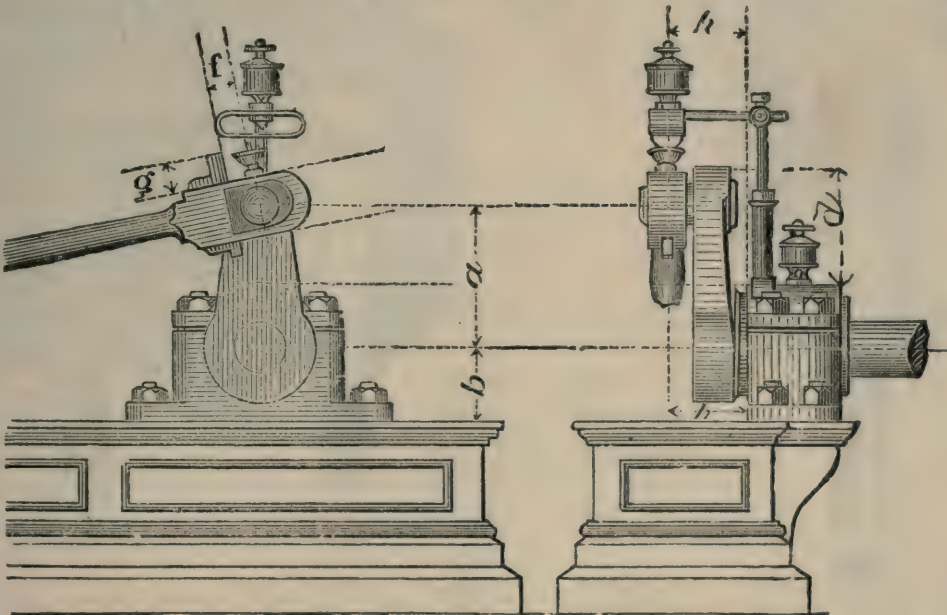


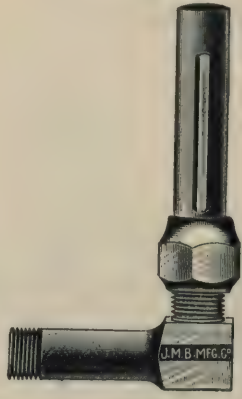
Fig. 489. Showing Mode of Application to Engine



Figs. 487 and 488	For Engines inside of 50 Horse Power, price each				\$15.00
	"	"	100	"	20.00
	"	"	150	"	25.00
	"	"	200	"	30.00
	"	"	250	"	35.00
	All above				40.00

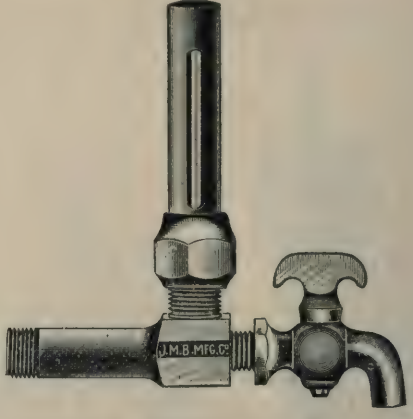
Oil Gauges for Dynamos.

Fig. 490



No. 1, Plain.

Fig. 491.



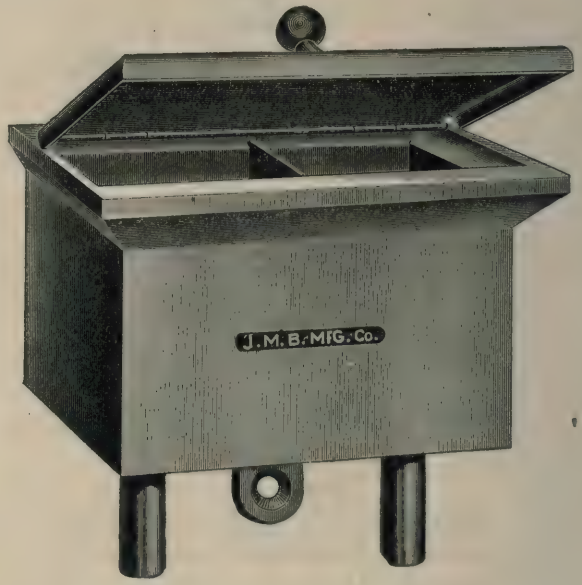
No. 2, with Drain Tap.

Number and Size.....	No. 1.			No. 2.		
	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
Finished, price each.....	.95	1.10	1.25	1.25	1.50	1.80
N. Plated, ".....	1.10	1.25	1.50	1.40	1.70	2.00

Marine Oil Drips Half Circle and Square.

Fig. 492. Flat or Concave Back.

Fig. 493. Square.



Size, Inches	$1\frac{1}{4}$	$2\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 492, Finished, price each.....	.80	1.00	1.50	1.80	2.40
" 492, N. Plated, ".....	1.00	1.20	1.75	2.10	2.80
" 493, Without Covers, Finished, price each....	.....	.....	.....	.....	4.50
" 493, " " N. Plated, ".....	.....	.....	.....	.....	5.00
" 493, With Covers, Finished, ".....	.....	.....	.....	.....	6.00
" 493, " " N. Plated, ".....	.....	.....	.....	.....	6.75

Oil Cups.

The "Bangs" Patent Automatic Oil Cups.

For Reciprocating Motion.

Fig. 494.



View Looking in at Top with
Cover removed.



Number of the Cup - - -	No. 4 A	No. 3 AX	No. 3 A	No. 2 A	No. 1 A
Diameter of the Cup, Inches - -	$1\frac{11}{16}$	$2\frac{1}{8}$	$2\frac{1}{8}$	$2\frac{1}{2}$	3
Largest Diam. of the Cup, Inches -	$2\frac{3}{8}$	$2\frac{7}{8}$	$2\frac{7}{8}$	$3\frac{1}{8}$	$3\frac{1}{2}$
Size of Connections Pipe Thread -	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$
Capacity of Cups, Ounces - -	$1\frac{1}{2}$	3	3	6	12
Finished, price each - - -	4.00	5.00	5.00	8.00	12.00
N. Plated, " - - -	4.25	5.30	5.30	8.50	12.75

NOTE.—These Cups are not feeding while Engine is standing, as the Cups feed from the top only, and the Oil is forced through by Air Compression.

Full directions for connecting and operating accompanies each Cup.

Glass Oil Cups.

The "Gem" Slide Top Oil Cups
with Regulating Screw.

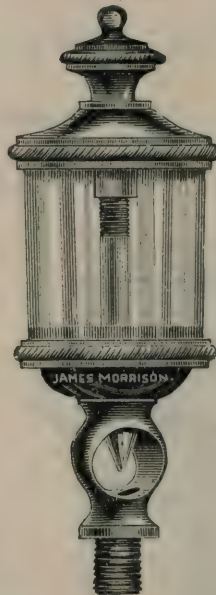
Fig. 495. Fig. 496.



With Sight Feed.

Sight Feed Oil Cup with
Regulating Screw.

Fig. 497.



Crank Pin Oil Cup
with Regulating
Screw.

Fig. 498.



Figs. 495 & 496. "Gem" Slide Top Oil Cups.

Number.....	1	2	3	4	5	6	7	8
Diameter and Length of Glass, inches	1 1/4 x 1 1/4	1 1/2 x 1 1/2	1 5/8 x 1 3/4	2 x 2	2 x 2 1/2	2 1/2 x 2 1/2	3 x 3	3 1/2 x 3 1/2
Capacity in Imperial Pints.....	1/32	3/64	5/64	9/64	3/16	9/32	1/2	7/8
Shank Threaded for Iron Pipe.....	1/8 or 1/4	1/4	3/8	3/8	3/8	1/2	1/2	1/2
Fig. 495. Finished, price each.....	1.15	1.40	1.60	1.95	2.30	2.95	3.75	4.50
" " N. Plated, " "	1.25	1.60	1.80	2.20	2.60	3.25	4.25	5.00
" 496. Finished, " " .....	.90	1.10	1.30	1.60	1.90	2.50	3.25	4.00
" " N. Plated, " "	1.00	1.30	1.50	1.85	2.20	2.80	3.75	4.50
Figs. 495 & 496. Extra Glasses, each	.20	.25	.25	.30	.35	.60	.80	1.45

Fig. 497. Sight Feed Oil Cup.

Number.....	1	2	3	4	5	6	7	8
Diameter and Length of Glass, inches	1 1/4 x 1 1/4	1 1/2 x 1 1/2	1 5/8 x 1 3/4	2 x 2	2 x 2 1/2	2 1/2 x 2 1/2	3 x 3	3 1/2 x 3 1/2
Capacity in Imperial Pints.....	1/32	3/64	5/64	9/64	3/16	9/32	1/2	7/8
Shank Threaded for Iron Pipe.....	1/8 or 1/4	1/4	3/8	3/8	3/8	1/2	1/2	1/2
Finished, price each.....	1.15	1.40	1.60	1.95	2.30	2.95	3.75	4.50
N. Plated, " "	1.25	1.60	1.80	2.20	2.60	3.25	4.25	5.00
Extra Glasses, price each .....	.20	.25	.25	.30	.35	.60	.80	1.45

Fig. 498. Crank Pin Oil Cup.

Number.....	1	2	3	4	5	6	7	8
Diameter and Length of Glass, inches	1 1/4 x 1 1/4	1 1/2 x 1 1/2	1 5/8 x 1 3/4	2 x 2	2 x 2 1/2	2 1/2 x 2 1/2	3 x 3	3 1/2 x 3 1/2
Capacity in Imperial Pints.....	1/32	3/64	5/64	9/64	3/16	9/32	1/2	7/8
Shank, Threaded for Iron Pipe.....	1/4	3/8	3/8	3/8	1/2	1/2	1/2	1/2
Finished, price each.....	1.15	1.40	1.60	1.95	2.30	2.95	3.75	4.50
N. Plated, " "	1.25	1.60	1.80	2.20	2.60	3.25	4.25	5.00
Extra Glasses, price each.....	.20	.25	.25	.30	.35	.60	.80	1.45

NOTE.—These Crank Pin Oil Cups do not Feed while standing.

Needle Glass Oilers.

Fig. 499.—With Guards.

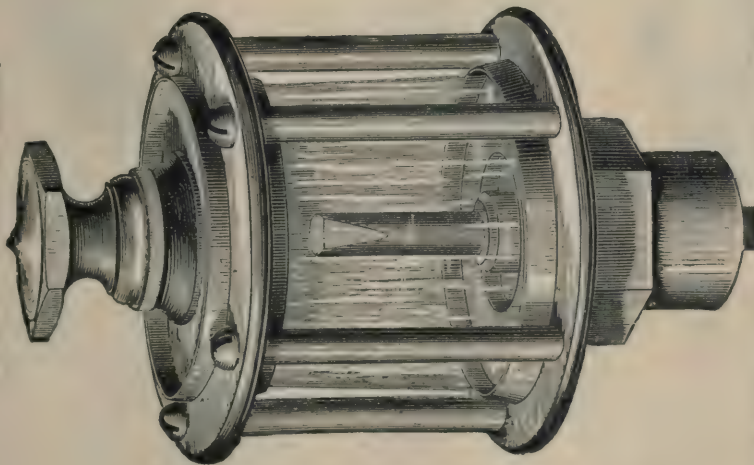


Fig. 500.—With Brass Shell.

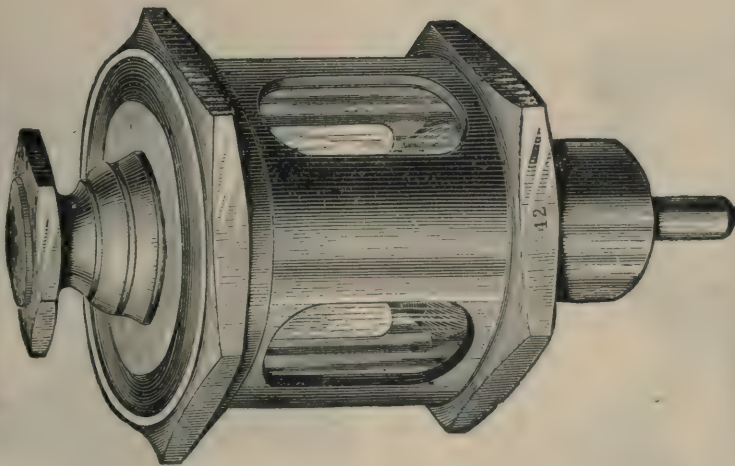
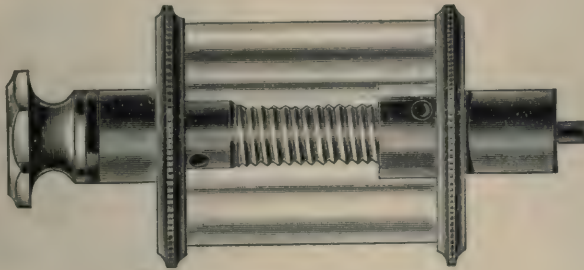


Fig. 501.—Plain Glass Shell.



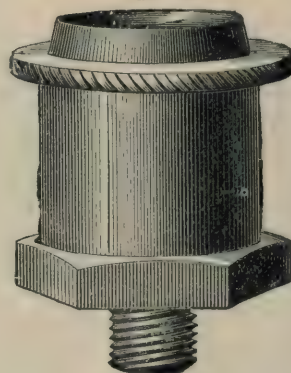
Number	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Diam. and Length of Glass, Inches.	1 x 1	1 x 1 1/4	1 1/4 x 1 1/4	1 1/4 x 1 1/4	1 1/2 x 1 1/2	1 1/2 x 1 1/2	1 3/4 x 1 3/4	1 3/4 x 1 3/4	1 3/4 x 2	2 x 2	2 x 2 1/2	2 1/2 x 2 1/2	3 x 3	3 1/2 x 3 1/2	4 x 4
Capacity in Impl. Pints	1.64	1.64	1.32	1.32	3.64	1.16	1.16	5.64	3.32	9.64	3.16	9.32	3.32	3.32	1 1/4
Shank, Screwed for Iron Pipe	1/4	1/4	1/4	1/4	3/8	3/8	3/8 or 1/2	3/8 or 1/2	1/2	1/2	1/2	1/2 or 3/4	1/2 or 3/4	3/4	3/4
Fig. 499, Finished, price each	1.65	1.75	1.90	2.00	2.20	2.40	2.60	2.80	3.00	3.30	3.60	5.50	6.60	7.75	9.00
" 499, N. Plated,	1.90	2.00	2.20	2.30	2.50	2.80	3.00	3.25	3.50	3.80	4.10	6.00	7.35	8.50	10.00
" 500, Finished,	1.65	1.75	1.90	2.00	2.20	2.40	2.60	2.80	3.00	3.30	3.60	5.50	6.60	7.75	9.00
" 500, N. Plated,	1.90	2.00	2.20	2.30	2.50	2.80	3.00	3.25	3.50	3.80	4.10	6.00	7.35	8.50	10.00
" 501, Finished,	.90	.95	1.00	1.10	1.10	1.20	1.30	1.40	1.50	1.70	1.90	2.90	3.35	3.80	4.40
" 501, N. Plated,	1.10	1.15	1.20	1.30	1.35	1.45	1.60	1.75	1.90	2.10	2.30	3.35	3.80	4.40	5.10
Extra Glasses,	.10	.15	.20	.20	.25	.25	.25	.30	.30	.30	.40	.60	.80	1.45	2.00

Brass Oil Cups.

PLAIN
Fig. 502.

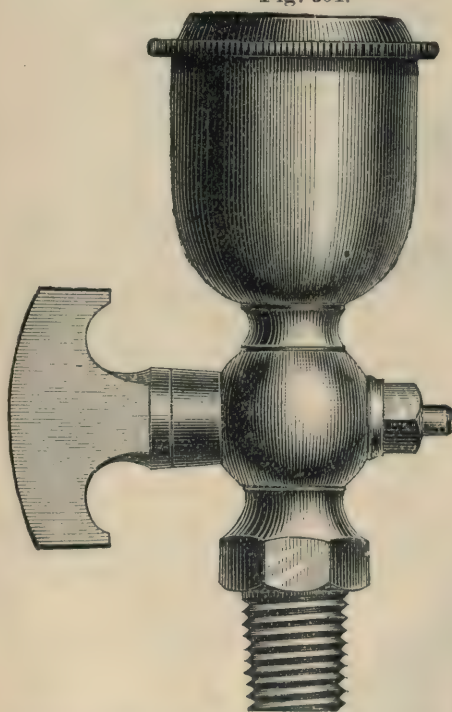


NEW PATTERN
Fig. 503.

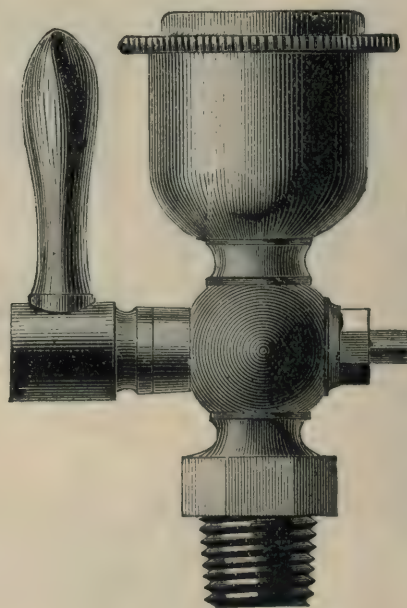


Stop Cock Oil Cups.

T HANDLE.
Fig. 504.



LEVER HANDLE.
Fig. 505.



Diameter of Cup, Inches		-	-	-	-	-	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3
Shank Screwed, Iron Pipe		-	-	-	-	-	$\frac{3}{8}$ or $\frac{1}{4}$	$\frac{1}{2}$ or $\frac{3}{8}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$
Fig. 502.	Finished, Price each	-	-	-	-	-	30	35	40	50	60	90	1.25	1.75	2.25	2.75	3.50	4.50
"	Nickel Plated	-	-	-	-	-	40	45	50	60	75	1.10	1.50	2.05	2.60	3.15	3.95	5.00
Fig. 503.	Finished	-	-	-	-	-	...	...	60	75	1.00	1.35	1.75	2.00	...	...	...	...
"	Nickel Plated	-	-	-	-	-	...	...	70	85	1.15	1.55	2.00	2.30	...	...	...	...
Fig. 504.	Finished	-	-	-	-	-	...	...	...	...	1.60	2.20	2.75	3.25	...	...	...	...
"	Nickel Plated	-	-	-	-	-	...	...	...	...	1.85	2.50	3.20	3.75	...	...	...	...
Fig. 505.	Finished	-	-	-	-	-	...	...	...	...	1.60	2.20	2.75	3.25	...	...	...	...
"	Nickel Plated	-	-	-	-	-	...	...	...	...	1.85	2.50	3.20	3.75	...	...	...	...

Oil Cups.

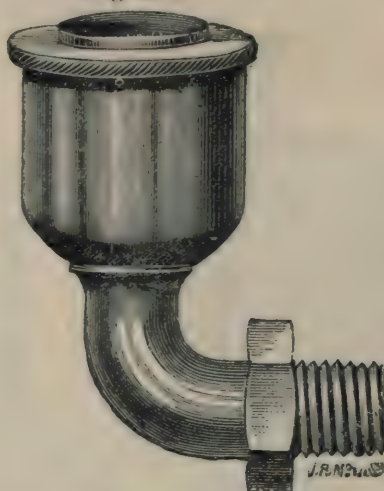
"Jones" Patent Oil Cup.

Fig. 506.



Plain Elbow Oil Cup.

Fig. 507.



Diameter of Cup, Inches	1	1 1/8	1 1/4	1 1/2	2
Shank, Screwed, Iron Pipe Thread	1/4	1/4	1/4	3/8	1/2
Fig. 506, Jones' Patent, Finished, Price each	.50	.60	.75	1.10	2.00
" 506, " " N. Plated "	.60	.70	.90	1.30	2.30
" 507, Elbow Cup, Finished "	1.00	1.25	1.50	2.00	3.00
" 507, " " N. Plated "	1.25	1.50	1.75	2.30	3.40

Needle Shafting Oilers.

With Brass Bottoms.

Round

Fig. 508.



No. 9.

Half Round

Fig. 509.



No. 10.

Round

Fig. 510.



No. 12.

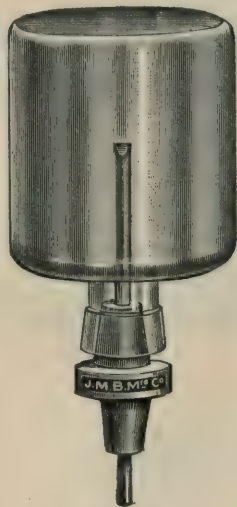
Number	9	10		12		
Diam. and Length of Glass, Inches	2 1/2 x 1 1/4	2 1/2 x 1 1/4	2 1/2 x 2 1/2	2 x 1 1/2	2 1/2 x 2 1/2	3 x 3
Capacity in Imperial Pints	1/16	3/64	1/8	1/16	1/4	1/2
With Brass Bottom, price each	.50	.50	.50	.50	.50	.60
With Wood Plug, " "	.25	.25	.25	.25	.25	.40

Needle Shafting Oilers.

With Wood Plugs.

Round

Fig. 511.



No. 1.

Flat

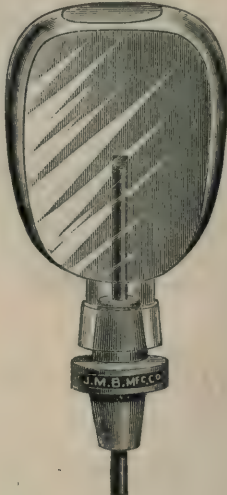
Fig. 512.



No. 2.

Half-Round

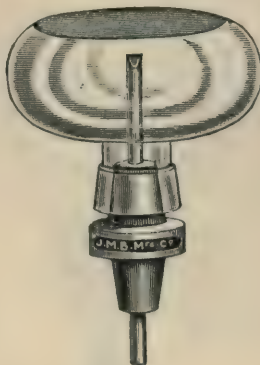
Fig. 513.



No. 4.

Round

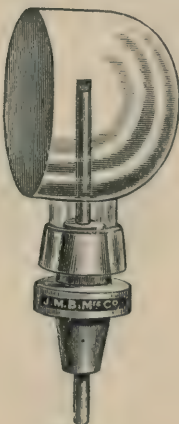
Fig. 514.



No. 5.

Half-Round

Fig. 515.



No. 7.

Round

Fig. 516.



No. 8.

Number	1	2	4	5	7	8
Diameter and Length of Glass, inches.....	2 x 2 1/4	2 x 2 1/4	2 x 2 1/4	2 3/4 x 1 1/4	1 1/2 x 1 1/2	1 1/2 x 1 1/2
Capacity in Imperial Pints.....	1/8	3/32	1/16	5/64	1/32	3/64
With Wood Plug, price each.....	25	25	25	25	25	25

Engineers' and Steamboat Oiling Sets.

Engineers' Set.

Fig. 517.

Steamboat Set.

Fig. 518.



Single Bottom, Round Tray, 6 pieces.
(5 Cans, 1 Tray)

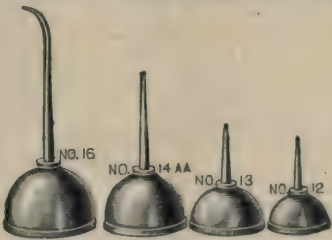


Double Bottom, Recessed, Oval Tray, 6 pieces.
(5 Cans, 1 Tray)

Description	No. of Pieces in Set.	Tray Diam.	Polished Brass.	Copperised Finish.	Nickel Plated Finish.
Fig. 517, Round Tray	5	12 in.	5.00	5.00	7.00
“ “	6	14 “	7.00	7.00	10.00
Fig. 518, Oval Tray	5	14 “	9.00	9.00	10.00
“ “	6	16 “	12.00	12.00	13.00

Steel Oilers.

Fig. 519.



Description	Dome Dia. Inches.	Nozzle Length Inches.	Copperised Finish.	Nickle Plated.
No. 12, price per dozen	2 3/4	2 1/2	4.50	6.50
“ 13, “ “	3 3/8	3	5.50	8.00
“ 14AA “ “	3 3/4	5	8.00	10.75
“ 16, “ “	4 1/8	9	10.50	14.00

Scotch Water Gauge Glasses.

Fig. 520.

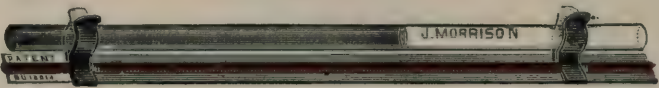


Length, inches.	Outside Diameter, ins.			Length, inches.	Outside Diameter, inches.				
	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$		$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$
9 in., price each	.16	.20	.25	20 in., price each	.35	.45	.75	.80	1.00
10 " "	.16	.20	.25	21 " "	.40	.50	.80	.85	1.15
11 " "	.16	.20	.25	22 " "	.40	.55	.85	.90	1.30
12 " "	.18	.20	.30	23 " "	.40	.60	.90	1.00	1.50
13 " "	.18	.25	.30	24 " "	.40	.60	1.00	1.10	1.75
14 " "	.20	.25	.35	30 " "	.60	1.00	1.50	1.75	2.50
15 " "	.20	.25	.35	36 " "	.80	1.50	2.00	2.25	3.50
16 " "	.25	.25	.40	48 " "	1.00	....	....	....	....
17 " "	....	.30	.40	60 " "	1.25	....	....	....	....
18 " "	....	.30	.40	72 " "	1.50	....	....	....	....
19 " "	....	.35	.45	84 " "	2.00	....	....	....	....
				96 " "	2.50	....	....	....	....

Patent Red Reflectors.

For use with Ordinary Glasses.

Fig. 521.



Length, inches	6	9	12	15	18
Price, each	.20	.25	.40	.50	.60

Rubber Washers for Gauge Glasses.

Fig. 522.

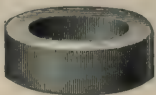


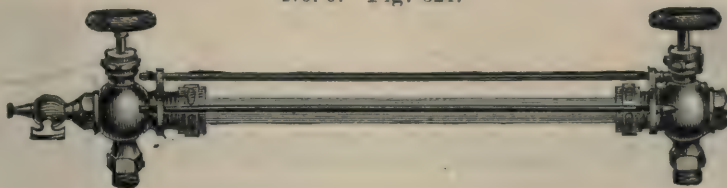
Fig. 523.



Size of Glass	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$
Price, per dozen	.50	.50	.60	.60	.75	.75

Compression Water Gauges.

No. 0. Fig. 524.



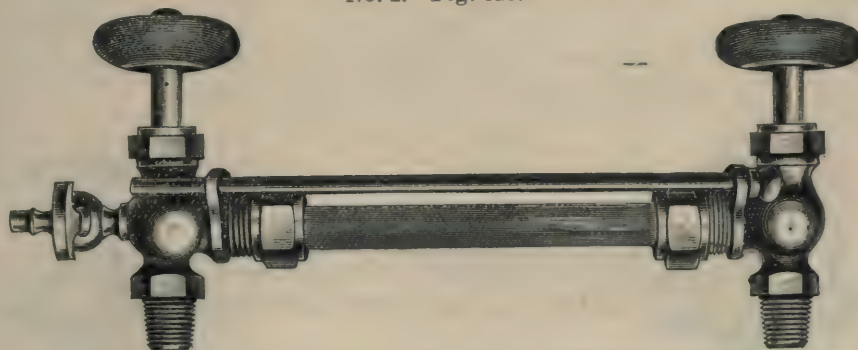
DESCRIPTION	PRICE, EACH	
	Finished	Nickel Plated
No. 0. Round Body, with Wood Wheel, Two Guards, $\frac{1}{2}$ x 12 in. Glass, $\frac{1}{4}$ in. Iron Pipe Connections	2.90	3.20

No. 1. Fig. 525.



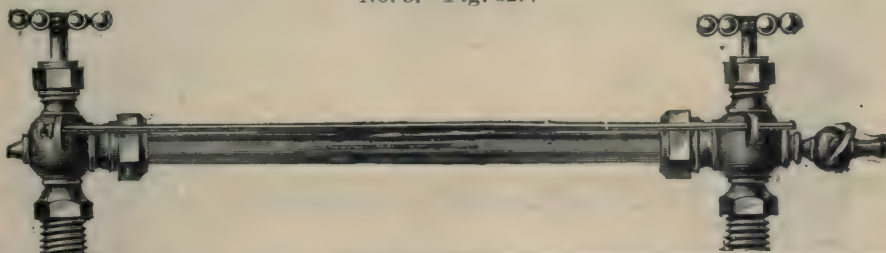
No. 1. Round Body, with Iron Wheels, Two Guards, $\frac{5}{8}$ x 12 in. Glass, $\frac{3}{8}$ in. Iron Pipe Connections, Rough, Price each	2.75
---	------

No. 2. Fig. 526.



DESCRIPTION	PRICE, EACH	
	Finished	Nickel Plated
No. 2. Round Body, with Wood Wheels, Two Guards, $\frac{5}{8}$ x 12 in. Glass, $\frac{3}{8}$ in. Iron Pipe Connections	3.50	3.80

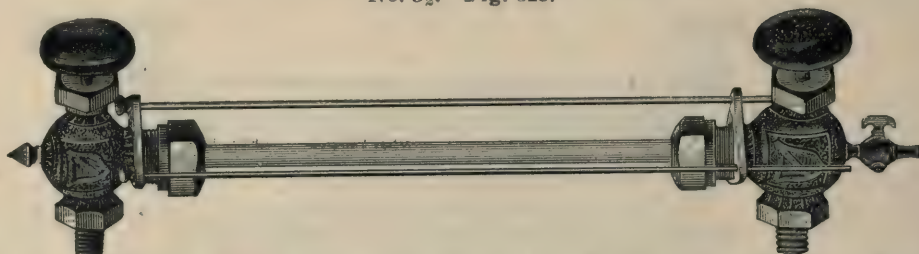
No. 3. Fig. 527.



No. 3. Rough, Round Body, with Iron Wheels, Two Guards, $\frac{5}{8}$ x 12 in. Glass, $\frac{1}{2}$ in. Iron Pipe Connections, Price each	3.00
---	------

Compression Water Guages.

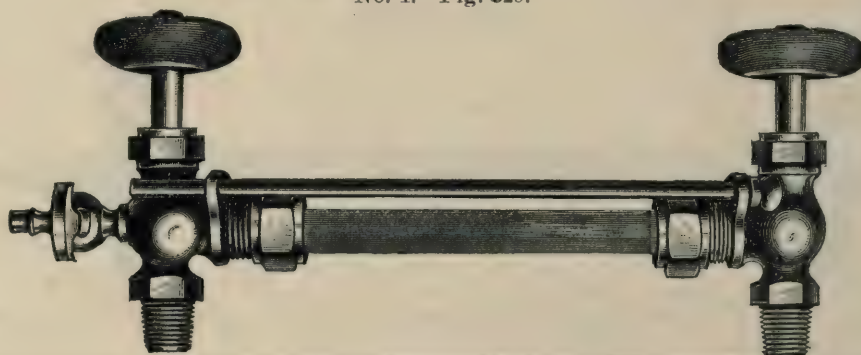
No. 3½. Fig. 528.



No. 3½. Carved, Rough, Round Body, Two Guards, $\frac{5}{8}$ x 12 in. Glass, $\frac{1}{2}$ -in. Iron Pipe Connections, price each

3.25

No. 4. Fig. 529.



No. 4. Finished, Round Body with Wood Wheels, $\frac{5}{8}$ x 12 in. Glass, $\frac{1}{2}$ in. Iron Pipe Connections

DESCRIPTION.

PRICE, EACH.

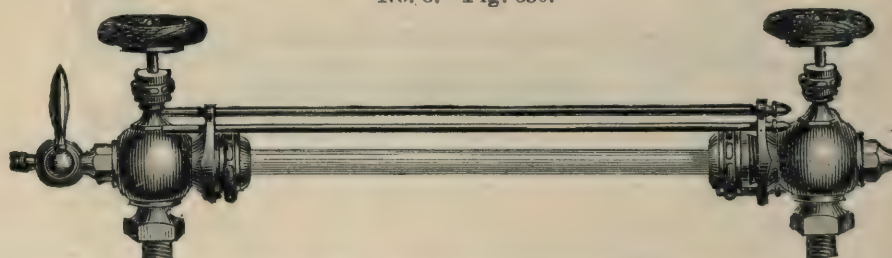
Finished.

N. Plated.

4.25

4.65

No. 5. Fig. 530.



No. 5. Finished, Round Body with Wood Wheels, $\frac{5}{8}$ x 12 in. Glass, $\frac{1}{2}$ or $\frac{3}{4}$ in. Iron Pipe Connections

DESCRIPTION.

PRICE, EACH.

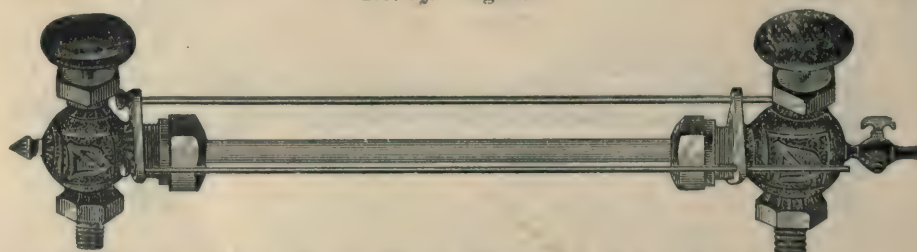
Finished.

N. Plathd.

5.50

6.00

No. 5½. Fig. 531.



No. 5½. Rough, Carved, Round Body, Wood Wheels, $\frac{5}{8}$ x 12 in. Glass, $\frac{1}{2}$ or $\frac{3}{4}$ in. Iron Pipe Connections, price each

5.25

Compression Water Gauges.

No. 6.—Fig. 532.



DESCRIPTION.

PRICE EACH.

Finished.

N. Plated.

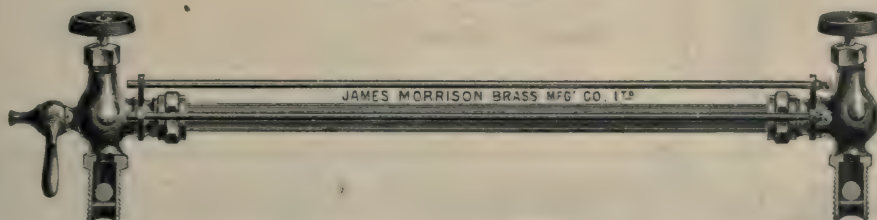
No. 6. Finished, Round Body, Two Guards, Wood Handles, $\frac{5}{8}$ x 12 in.
Glass, $\frac{1}{2}$ or $\frac{3}{4}$ in. Iron Pipe Connections

10.00

11.25

Automatic Closing.

No. 7. Fig. 533.



DESCRIPTION.

PRICE EACH

Finished.

N. Plated.

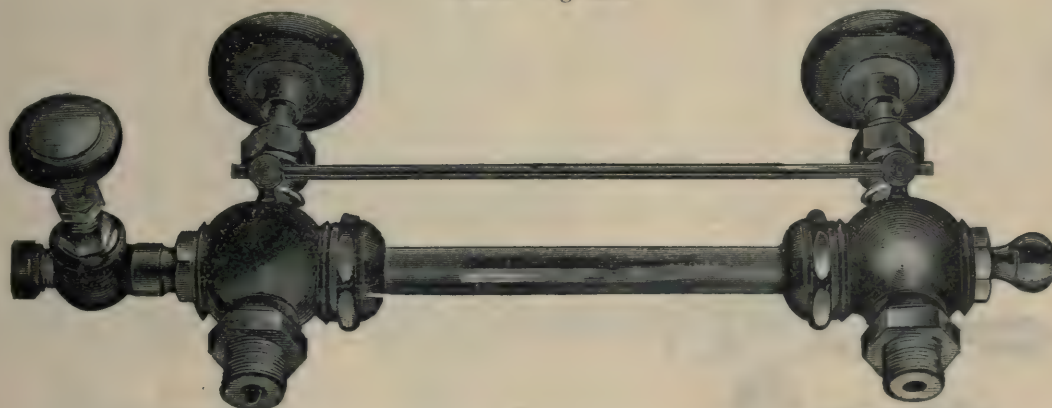
No. 7. Finished, Round Body, with Wood Wheels, Two Guards,
 $\frac{5}{8}$ x 12 in. Glass, $\frac{1}{2}$ or $\frac{3}{4}$ in. Iron Pipe Connections

13.00

14.50

Self Cleaning.

No. 8. Fig. 534.



DESCRIPTION.

PRICE EACH.

Finished.

N. Plated.

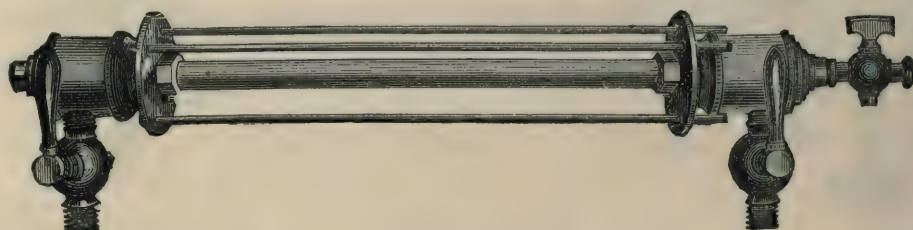
No. 8. Finished, Round Body, with Wood Wheels, Two Guards,
 $\frac{5}{8}$ or $\frac{3}{4}$ in. Glass, $\frac{1}{2}$ or $\frac{3}{4}$ in. Iron Pipe Connection

18.00

19.50

Lever Handle Water Gauges.

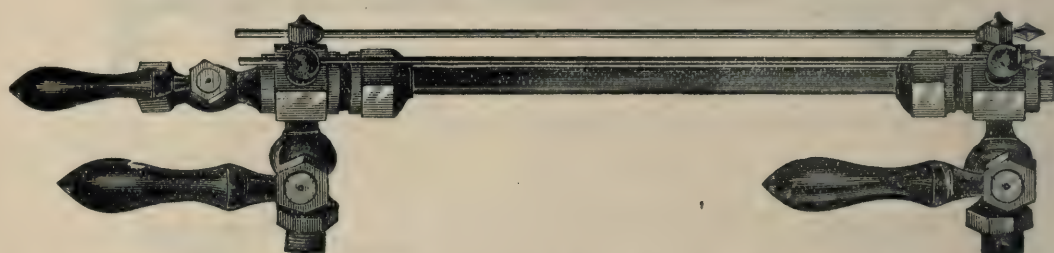
No. 9. Fig. 535. WOOD LEVER HANDLES.



No. 9. Finished, Cylindrical Body, Three Guards, $\frac{5}{8}$ x 12 in. Glass, Screwed Ends
for $\frac{1}{2}$ or $\frac{3}{4}$ in. Iron Pipe, price each - - - - - 10.00

Marine Water Gauge.

No. 10. Fig. 536. WOOD LEVER HANDLES. SCREWED ENDS.



No. 10. Finished, Hexagon Body, Two Guards, $\frac{3}{4}$ x 16 in. Glass, Screwed $\frac{3}{4}$ or 1 in.
Iron Pipe, Price each - - - - - 17.00

Marine Water Gauge.

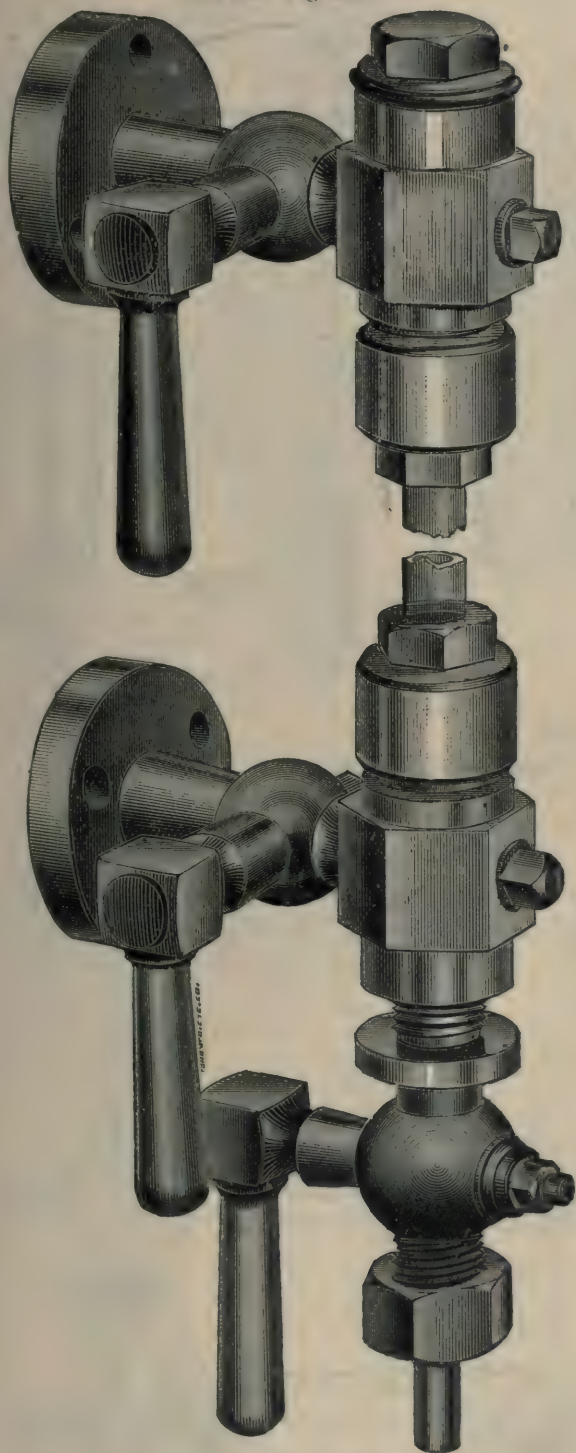
No. 11. Fig. 537. WOOD LEVER HANDLES. FLANGED ENDS.



No. 11. Finished, Hexagon Body, Two Guards, $\frac{3}{4}$ x 16 in. Glass, price each - - - - - 20.00

Marine or Locomotive Water Gauges.

No. 12. Fig. 538.



LEVER HANDLE.

Automatic Water Gauge.

No. 13. Fig. 539.



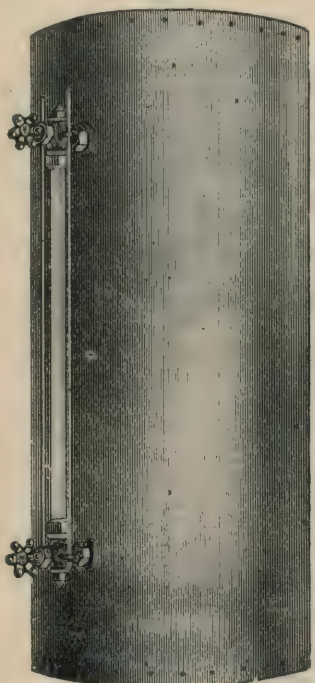
When a Glass breaks the Valves will close. To get Water and Steam, turn Stems down on the Valve, then turn them back to be automatic.

For Section of Valve see Page 167, Fig. 544.

Fig. 538, No. 12. Finished Hexagon Body, without Guards, $\frac{5}{8}$ or $\frac{3}{4}$ in. Glass, price each... 24.00
 Fig. 539, No. 13. Finished Round Body, with Guards, $\frac{5}{8}$ or $\frac{3}{4}$ in. Glass, " " ... 13.00

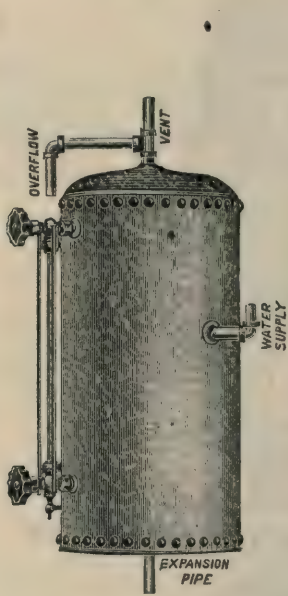
Expansion Tanks and Mountings.

Fig. 540.



Light,

Fig. 541.



Heavy.

Fig. 542.

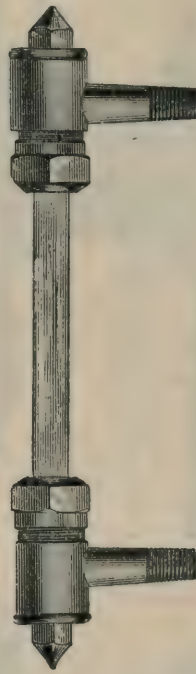


Fig. 542½.

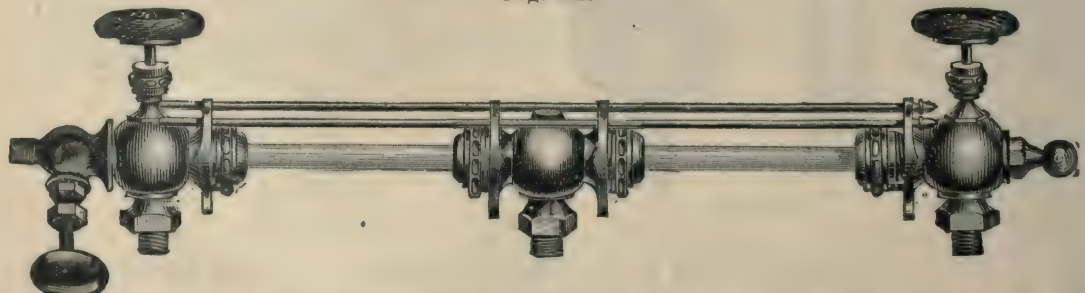


Fig. 540 & 541. Expansion Tanks.

Number	LIGHT, Fig. 540.			HEAVY, Fig. 541.		
	1	2	3	1	2	3
Height, inches	18	24	30	36	48	60
Diameter, Inches	12	15	18	12	12	12
Capacity in Gallons	9	17	31	18	24	30
Quantity of 1-inch Pipe they will relieve	3000	6,500	12,000	6,000	8,500	11,000
Without Water Gauge, price each	5.00	6.00	7.50	11.00	12.00	13.00
With Water Gauge, " " " "	8.00	9.00	10.50	14.00	15.00	16.00
Water Gauge only with 5/8 Glass 12 to 24 inches long and Guards	-	-	-	-	-	3.00
Fig. 542. Expansion Tank Mountings, no Valves or Guards, Rough, 3/8 in. pipe connections	2.00					
Fig. 542½. " " " " with Guards, Finished, 3/4 in. " "	4.00					

Tank Mountings For Brewers and Distillers.

Fig. 513.

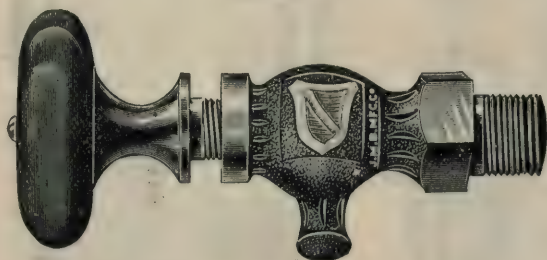


Finished, with Valves, Guards and Centre Mountings and 2 1/2 x 72 inch Glass 16.50

Compression Gauge Cocks.

No. 1 Without S. Box.

Fig. 551.



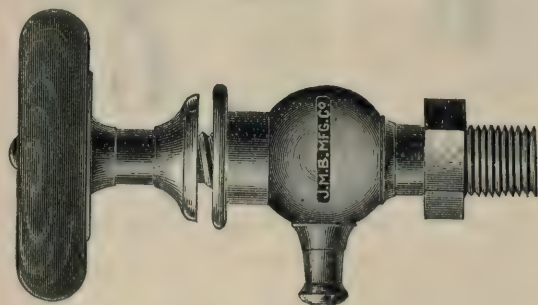
No. 2 With S. Box.

Fig. 552.



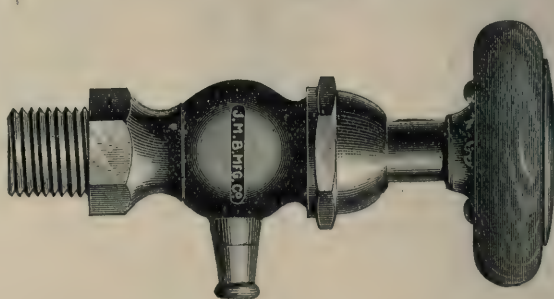
No. 3. Without S. Box.

Fig. 553.



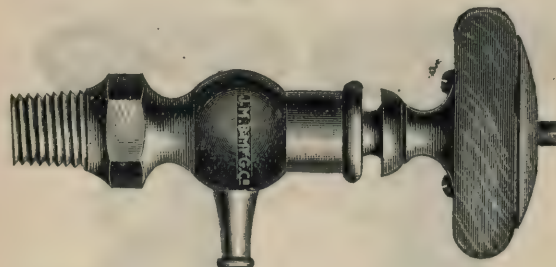
No. 4. With S. Box.

Fig. 554.



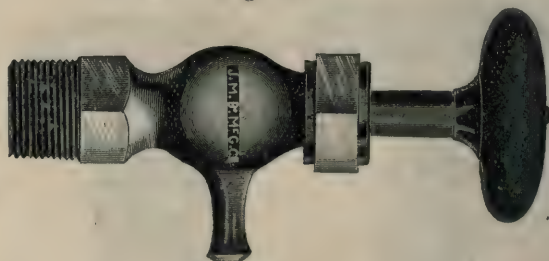
No. 5. Self Cleaning.

Fig. 555.



No. 6. Marine Gauge Cock.

Fig. 556.



DESCRIPTION.	ROUGH.		FINISHED.			N. PLATED.		
	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Fig. 551, No. 1, with Wood Wheel, Price each	1.00	1.10	.....	.....	.....	.....	.....	.....
" 552, " 2, " " " " " "	1.25	1.35	.....	.....	.....	.....	.....	.....
" 553, " 3, " " " " " "	.....	.....	.95	1.00	1.10	1.15	1.20	1.35
" 554, " 4, " " " " " "	.....	.....	1.20	1.25	1.35	1.40	1.45	1.60
" 555, " 5, " " " " " "	.....	.....	.....	1.50	1.75	.....	1.75	2.05
" 556, " 6, " " " " " "	.....	.....	.....	2.50	2.60	.....	2.85	3.00

Regester's Gauge Cocks.

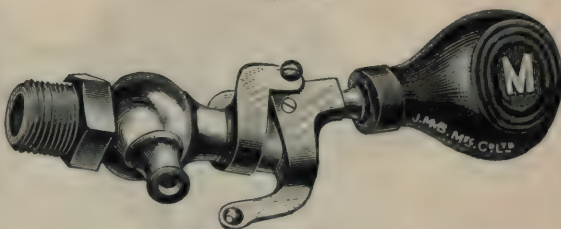
Fig. 557.

**Duplex Gauge Cock.**

Fig. 558.

**Gauge Cock with Chain Attachment.**

Fig. 559.

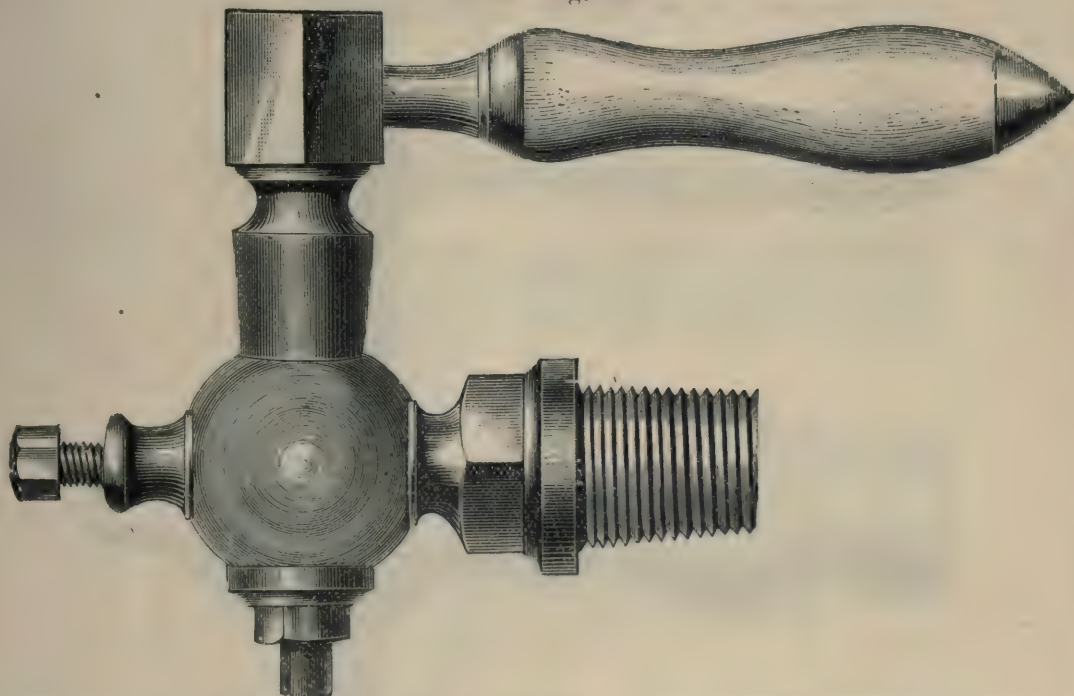


Size, inches

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$
Fig. 557—Regester's Patent Gauge Cocks. Price, each	1.00	1.10
" 558—Duplex " " " " " " " " " "	.90	1.00
" 559—With Chain Attachment. " " " " " " " " " "	.....	4.00

Marine Lever Handle Gauge Cocks

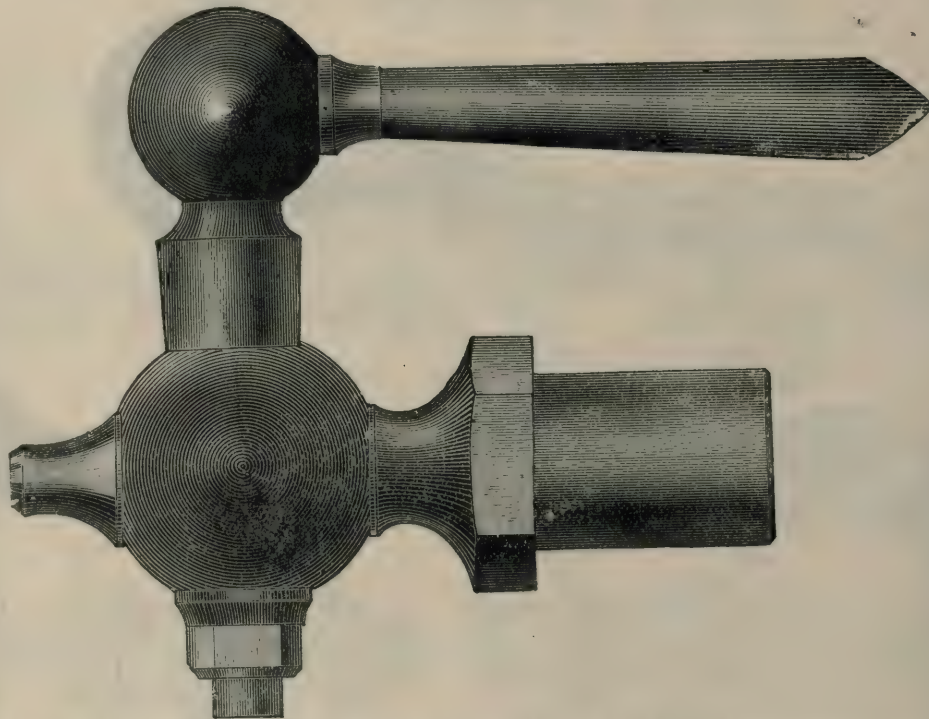
No. 1. Fig. 560.



Shank, Screwed for Iron Pipe. Size	$\frac{1}{2}$	$\frac{3}{4}$
Finished, Round Body, Short { Light Pattern. Price, each	2.50	.....
Shank, with Wood Handles { Heavy " " " " " "	4.00	4.25

Lever Handle Gauge Cock.

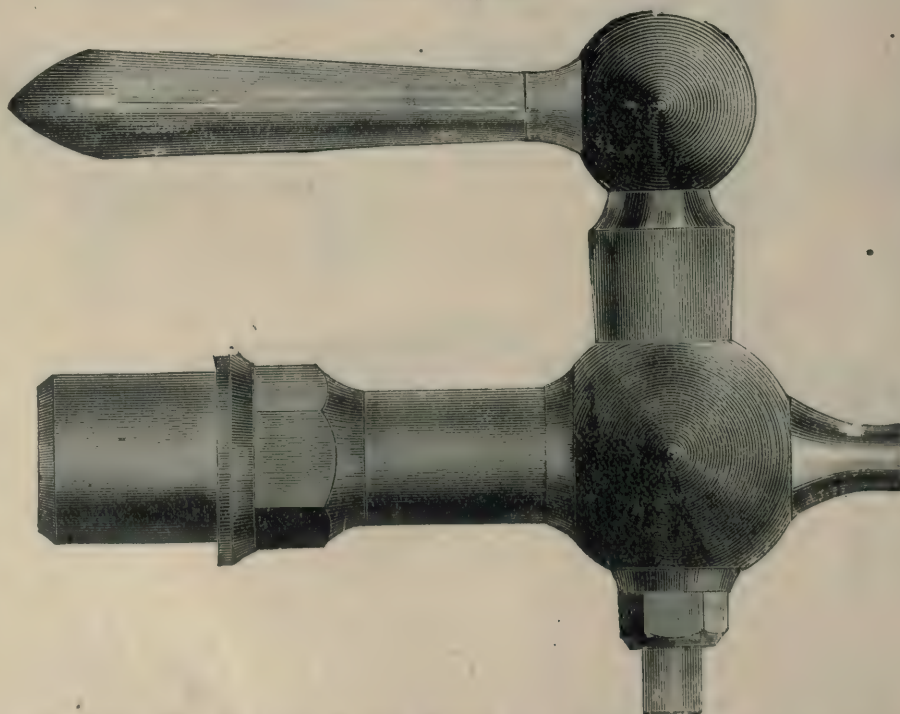
No. 2. Fig. 561.



Finished, Brass Lever Handle, Short Shank, Screwed for $\frac{1}{2}$ or $\frac{3}{4}$ inch Pipe, price each.....2.25

Lever Handle Gauge Cock.

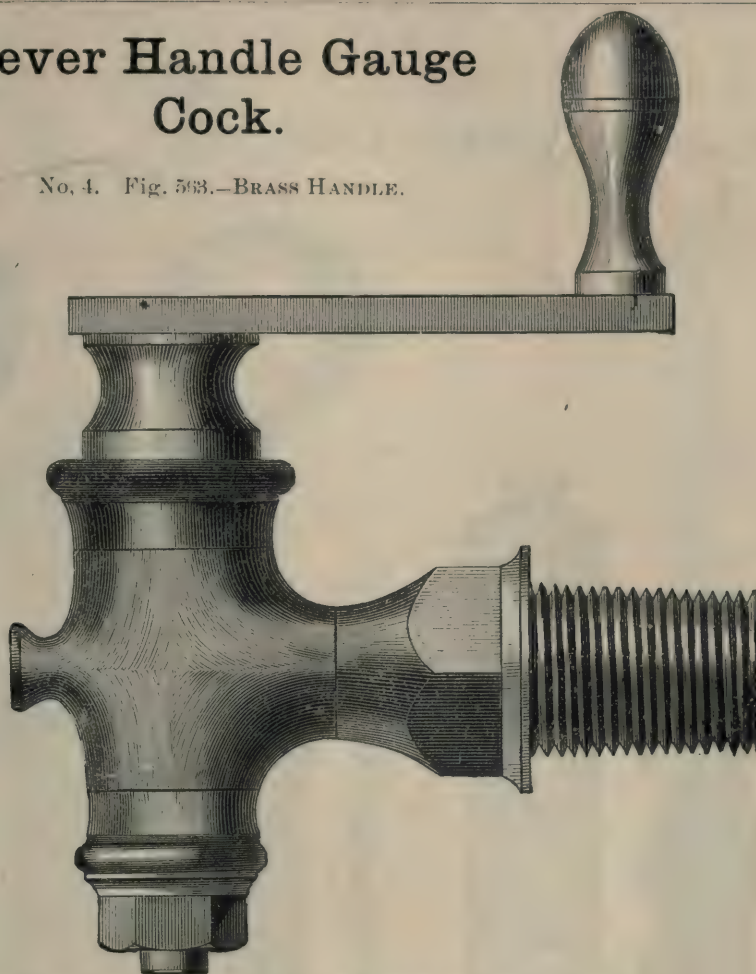
No. 3. Fig. 562.



Finished, Brass Lever Handle, Long Shank, Screwed for $\frac{1}{2}$ or $\frac{3}{4}$ inch Pipe, price each.....2.25

Lever Handle Gauge Cock.

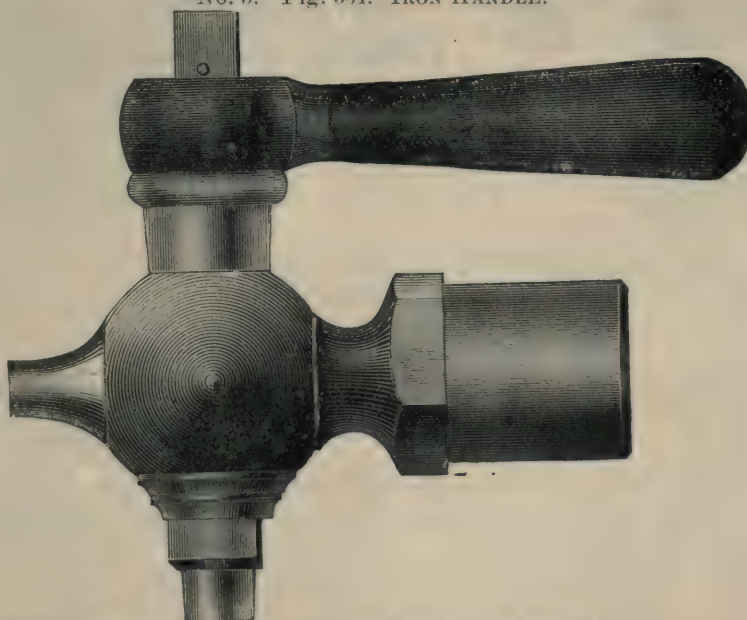
No. 4. Fig. 563.—BRASS HANDLE.



Finished Long Body, Shank Screwed for $\frac{1}{2}$ or $\frac{3}{4}$ inch Pipe, price each.....3.50

Lever Handle Gauge Cock.

No. 5. Fig. 564.—IRON HANDLE.



Finished Round Body, Shank Screwed for $\frac{1}{2}$ inch Pipe, price each.....1.80

Water Columns.

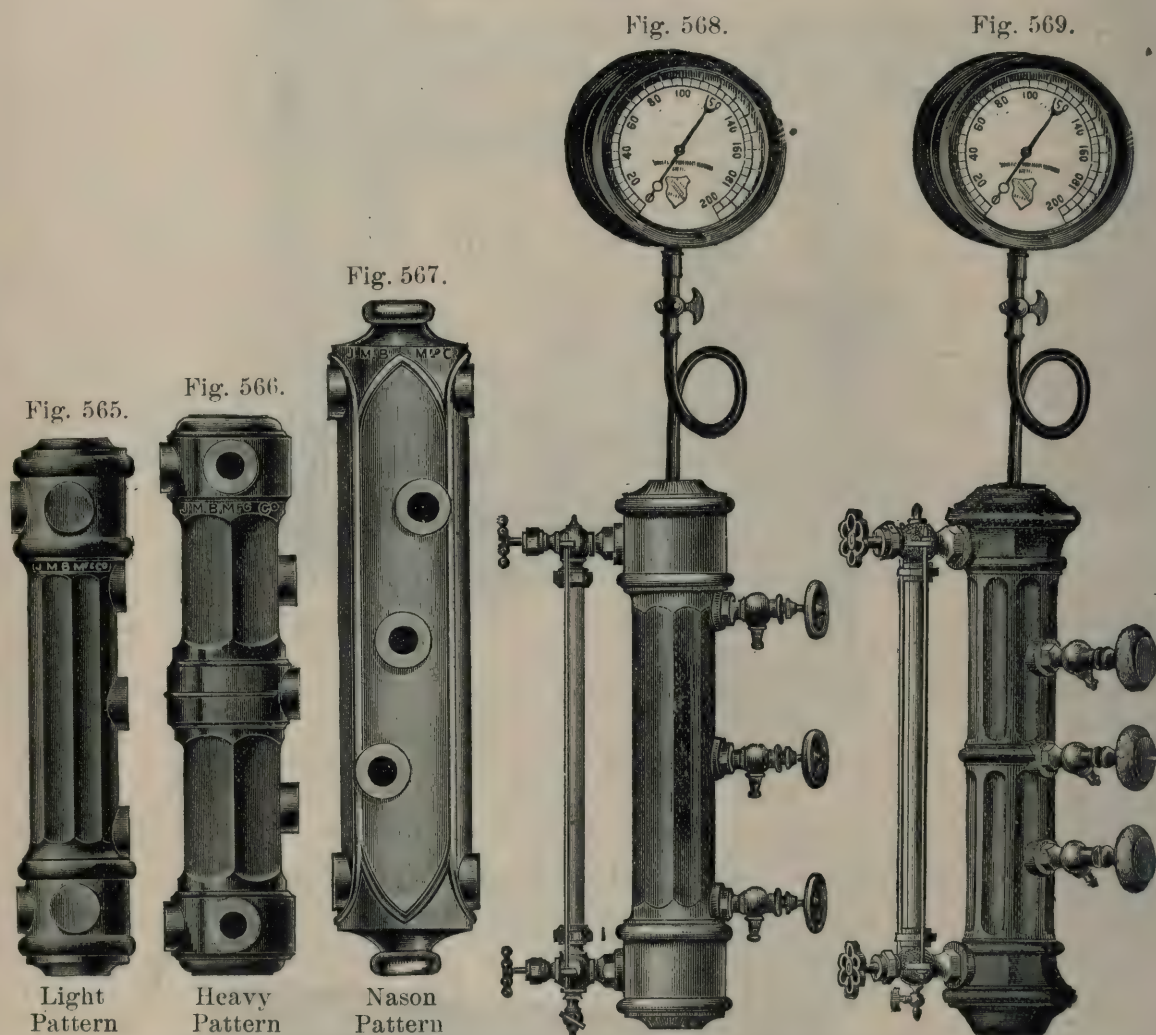


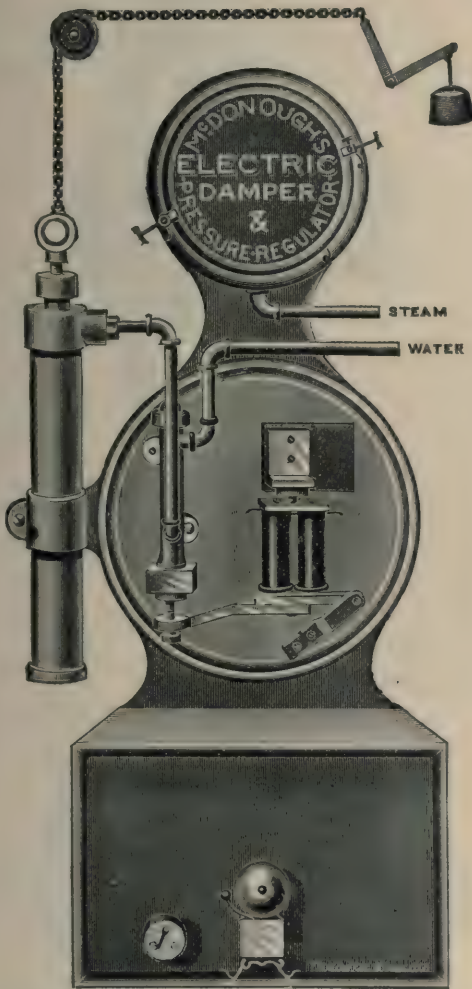
Fig. 565.	Cast Iron Column only, Tapped for $\frac{1}{2}$ in. Trimmings, Price each.....	2.00
" 566.	" " " " " " " " " " " "	3.75
" 567.	" " " " " " " " " " " "	4.50
" 568.	Cast Iron Column, with 5 in. I. C. Steam Gauge No. 3 Water Gauge, $3\frac{1}{2}$ in., Comp. Cocks, } Syphon and Cock, complete	27.50
" 569.	do. do. do. do. do. " "	29.00
" 567.	Cast Brass Column only, Finished	20.00
" "	" " " " " " Nickel Plated.....	23.00

Any style of Steam Gauge, Water Gauge and Gauge Cocks furnished to order.

For prices—To the price of the Column add the prices of the respective articles selected, and the sum will be the price required.

Electric Damper and Pressure Regulator.

Fig. 570.



Placed in operation with fittings complete, \$125.00.

Low Water Alarm. With Copper Float and Whistle.

Fig. 571.



Copper Float for Inside of Boiler,
complete with whistle..... \$14.00

McDonough's Electric Damper and Pressure Regulator

Is the most accurate and reliable regulator on the market.

It is guaranteed to fully open or close dampers on one-tenth of a pound variation of steam pressure.

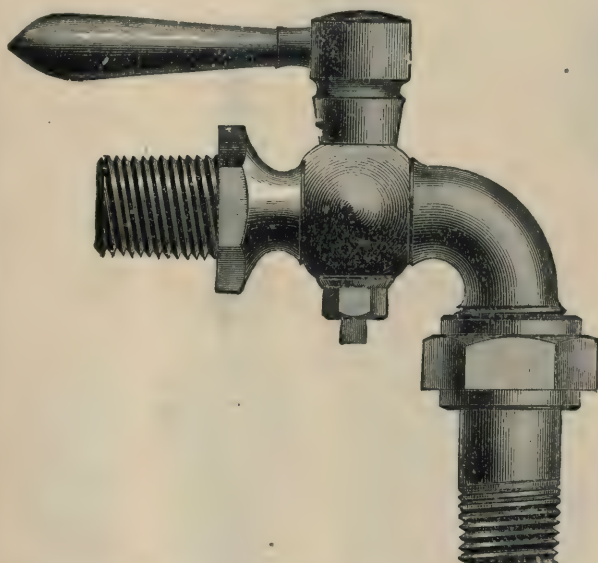
It is simple, accurate, reliable, and is "a regulator that does not have to be regulated."

It is invaluable as a convenience in maintaining a steady and uniform pressure, and will pay for itself in a few months through saving effected in consumption of coal.

Cylinder Cocks.

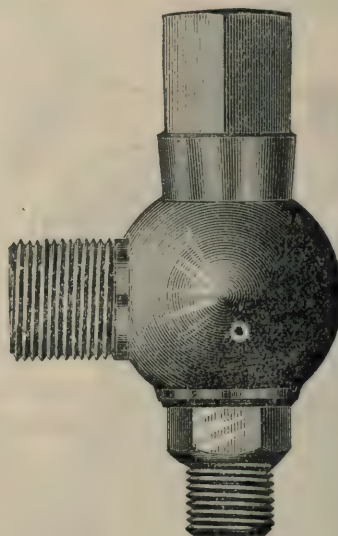
**Bent Nose, Lever Handle,
With Union Coupling.**

Fig. 572.



**Cross Drain,
Square Head.**

Fig. 573.

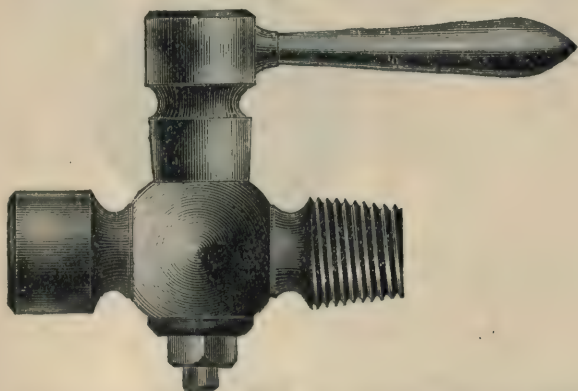


Size of Shank and Coupling Tail, Screwed Iron Pipe Thread

	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Fig. 572, Finished, price each.....	1.75	2.25	3.00
" 572, N. Plated, "	2.00	2.55	3.40
" 573, Finished, "	1.00	....	....

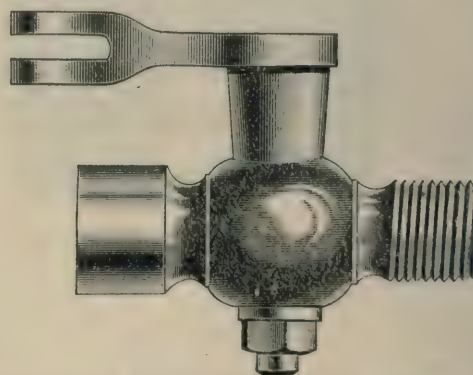
**Straight, Male and Female,
Lever Handle.**

Fig. 574.



**Male and Female,
Fork Handle.**

Fig. 575.

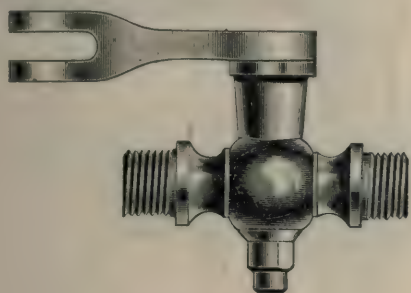


Size, Screwed for Iron Pipe.....	$\frac{3}{8} \times \frac{3}{8}$	$\frac{1}{2} \times \frac{3}{8}$	$\frac{1}{2} \times \frac{1}{2}$
Fig. 574, Finished, price each.....	1.25	1.50	1.75
" 574, N. Plated, "	1.50	1.75	2.00
" 575, Finished, "	1.25	....	....

Cylinder Cocks.

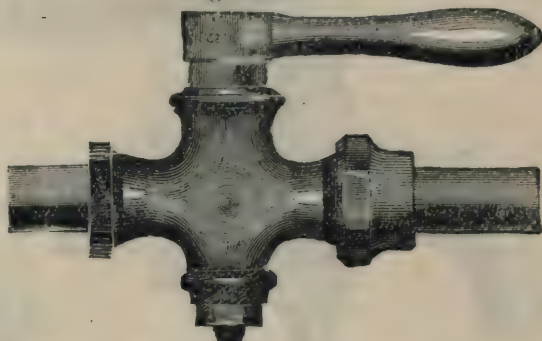
**With Lever,
For Rod Attachment.
Male Both Ends.**

Fig. 576.



Lever Handle with Single or Double Coupling.

Fig. 577.

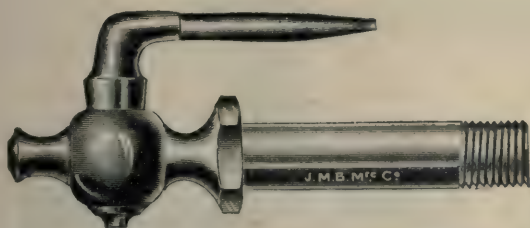


Single Coupling

Size, Screwed for Iron Pipe Thread	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 576, Finished, price each . . . . .	.90	1.50	....
" 577, Single Coupling, Finished, price each . . . .	....	2.00	2.50
" 577, Double, " " " . . . . .	....	2.25	3.00

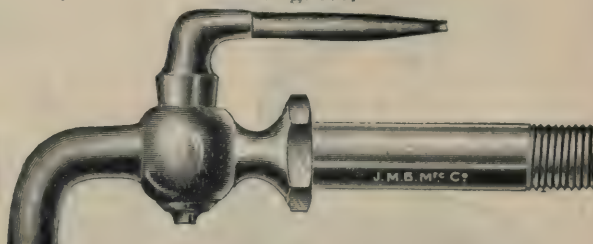
Lever Handle, Long Shank Cylinder Cocks.
Straight or Bent Nose.

Fig. 578.



Straight Nose.

Fig. 579.



Bent Nose.

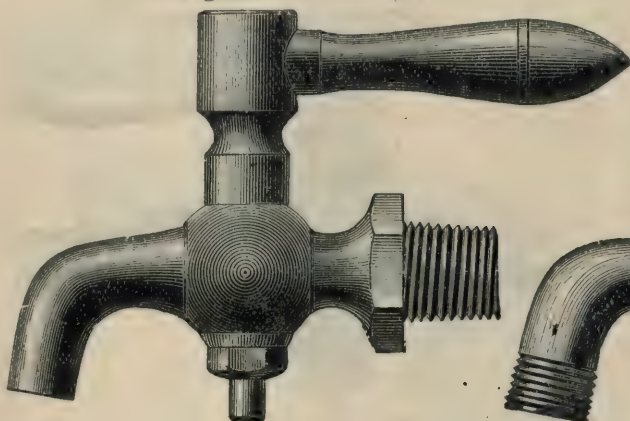
Size of Shank, Screwed Iron Pipe Thread	$\frac{1}{4}$	$\frac{3}{8}$
Fig. 578, Finished, price each	1.10	1.15
“ 578, N. Plated, “	1.30	1.40
“ 579, Finished, “	1.20	1.30
“ 579, N. Plated, “	1.40	1.55

Cylinder Cocks.

Lever Handle, Bent Nose, Plain and Screwed.

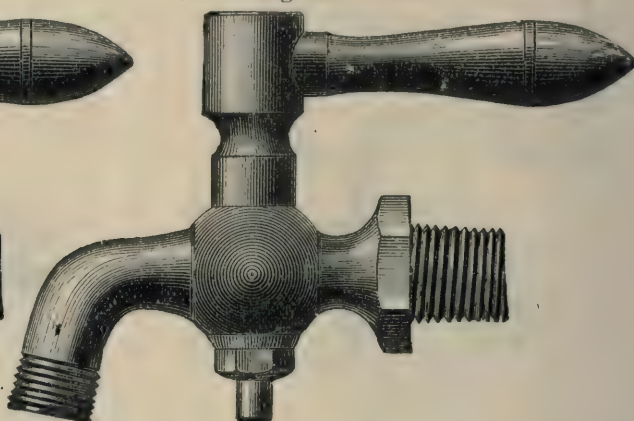
Plain Nose.

Fig. 580.



Screwed Nose.

Fig. 581.



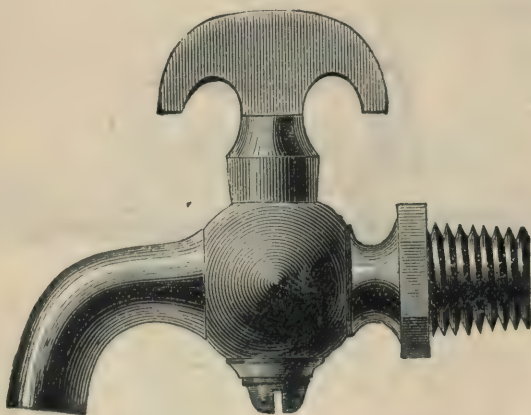
Size of Shank, Screwed Iron Pipe Thread

	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 580, Finished, price each	.85	.90	1.00
" 580, N. Plated, "	1.05	1.10	1.25
" 581, Finished, "	1.05	1.15	1.40
" 581, N. Plated, "	1.25	1.35	1.65

T Handle, Bent Nose, Plain and Screwed.

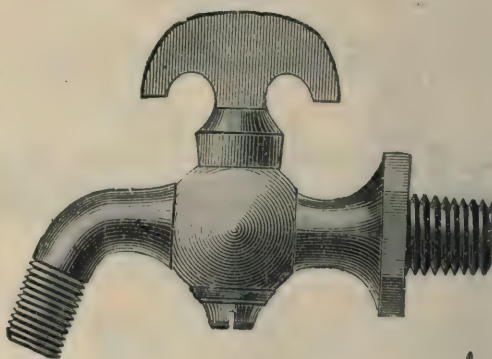
Plain Nose.

Fig. 582.



Screwed Nose.

Fig. 583.



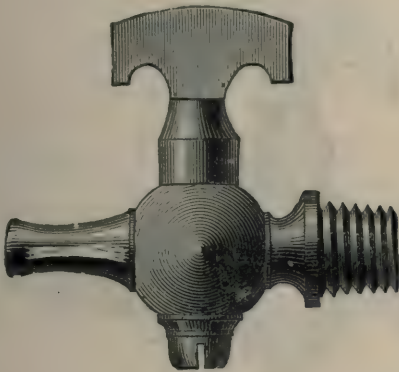
Size of Shank, Screwed Iron Pipe Thread

	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
Fig. 582, Finished, price each	.65	.70	.75
" 582, N. Plated, "	.80	.90	.95
" 583, Finished, "	.80	.90	1.00
" 583, N. Plated, "	1.00	1.10	1.20

Air or Pet Cocks.

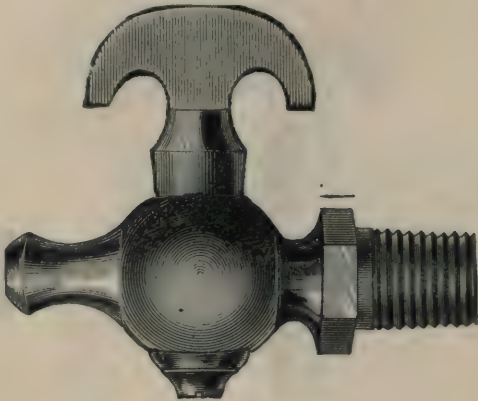
T Handle Straight Drain for Iron Pipe.

Fig. 584.



Light Pattern.

Fig. 585.



Extra Heavy Pattern.

Size of Shank, Screwed Iron Pipe Thread				$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 584.	Finished.	Price, each		40	45	50	60
" "	N. Plated.	" "		55	60	65	80
" 585.	Finished.	" " .....		..	65	75	90
" "	N. Plated.	" " .....		..	80	90	1.10

Lever Handle Straight Drain for Iron Pipe.

Fig. 586.

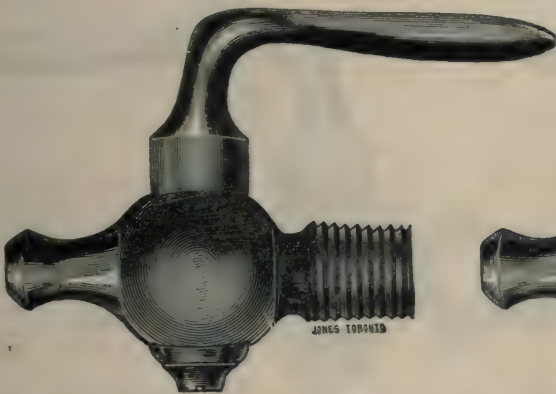
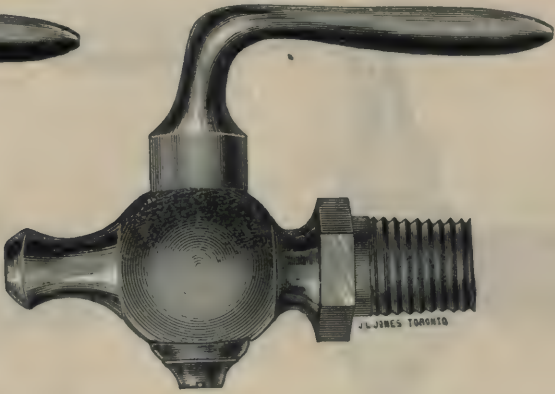


Fig. 587.

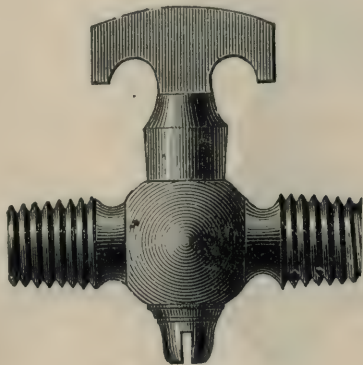


Size of Shank, Screwed Iron Pipe Thread				$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 586.	Finished.	Price, each		60	65	75
" "	N. Plated.	" "		75	80	95
" 587.	Finished.	" "		85	90	1.00
" "	N. Plated.	" "		1.00	1.05	1.20

Air or Pet Cocks.

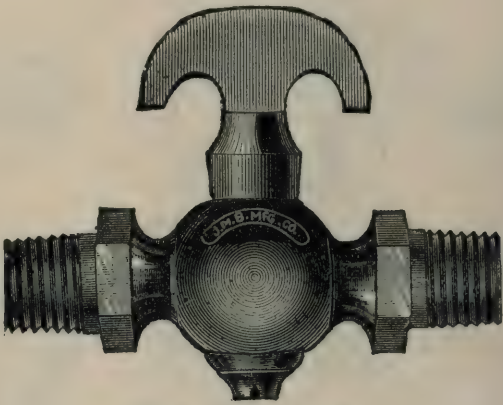
T Handle, Male Both Ends. For Iron Pipe.

Fig. 588.



Light Pattern.

Fig. 589.

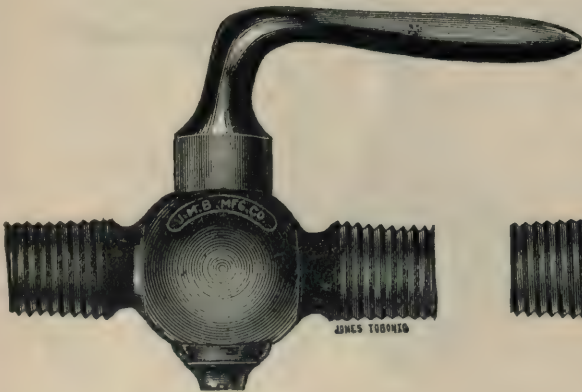


Extra Heavy Pattern.

Size of Shank, Screwed Iron Pipe Thread				$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 588.	Finished.	Price, each		45	50	60	80
" "	N. Plated.	" "		60	65	80	1.00
" 589.	Finished.	" " .....		..	70	80	1.00
" "	N. Plated.	" " .....		..	85	95	1.20

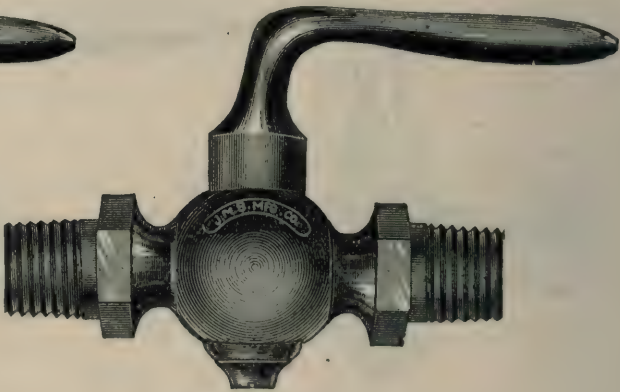
Lever Handle, Male Both Ends. For Iron Pipe.

Fig. 590.



Light Pattern.

Fig. 591.



Extra Heavy Pattern.

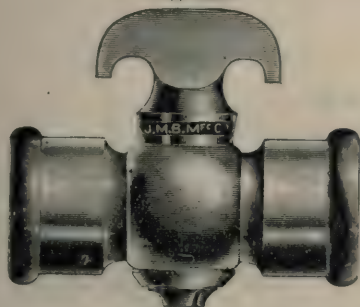
Size of Shank, Screwed Iron Pipe Thread				$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 590.	Finished.	Price, each		65	75	95
" "	N. Plated	" "		80	90	1.15
" 591.	Finished.	" "		85	1.00	1.20
" "	N. Plated.	" "		1.00	1.15	1.45

Air or Pet Cocks.

Female Both Ends For Iron Pipe.

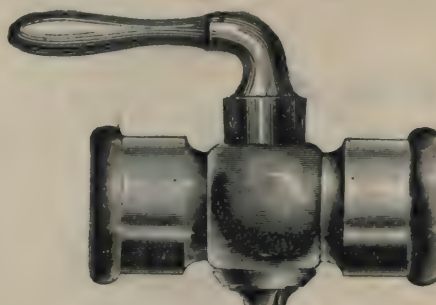
T Handle.

Fig. 592.



Lever Handle.

Fig. 593.



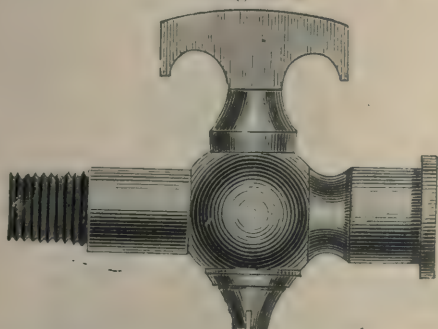
Size of Shank, Screwed Iron Pipe Thread.....	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
Fig. 592, Finished, price each.....	65	70	1.10
" 592, N. Plated, "	80	85	1.30
" 593, Finished, "	80	85	1.25
" 593, N. Plated, "	95	1.00	1.45

Air or Pet Cocks.

Male and Female For Iron Pipe.

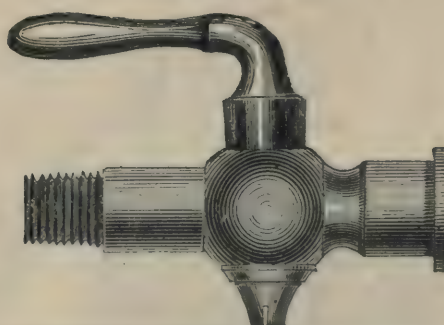
T Handle.

Fig. 594.



Lever Handle.

Fig. 595.

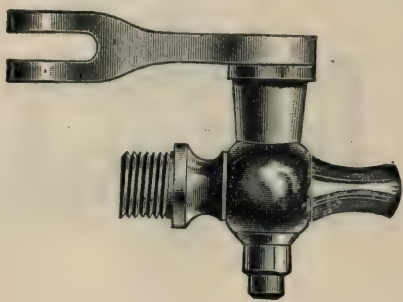


Size of Shank, Screwed Iron Pipe Thread.....	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 594, Finished, price each.....	60	65	1.00	1.35
" 594, N. Plated, "	75	80	1.20	1.60
" 595, Finished, "	80	85	1.15	1.50
" 595, N. Plated, "	95	1.00	1.35	1.75

Air or Pet Cocks.

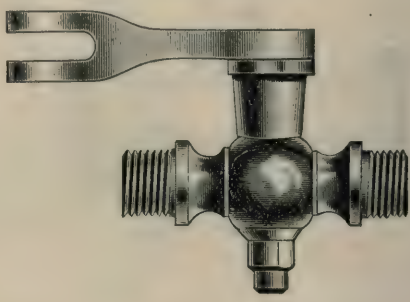
With Forked Lever, for Rod Attachment.

Fig. 596.



Single Thread.

Fig. 597.



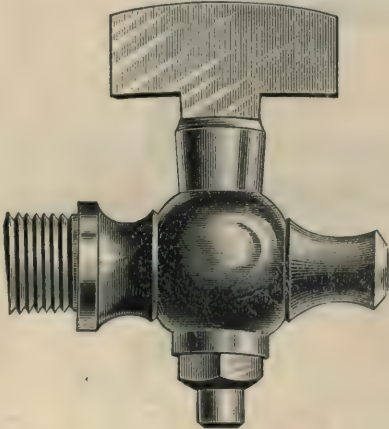
Both Ends Male.

Size of Shank, Screwed Iron Pipe Thread.....	$\frac{1}{4}$	$\frac{3}{8}$
Fig. 596. Finished, Price Each.....	90	1.00
" N. Plated, " "	1.05	1.15
" 597. Finished, " "	95	1.10
" N. Plated, " "	1.10	1.25

T HANDLE.

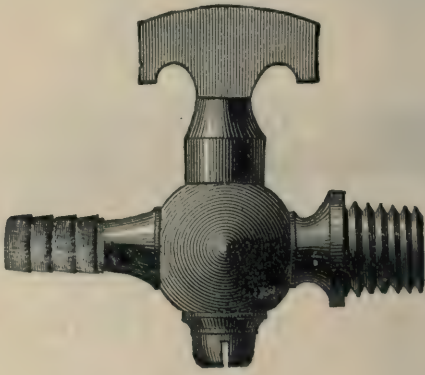
Cross Drain.
To Drain through Plug.

Fig. 598.



Corrugated.
For Rubber Tube and Iron Pipe.

Fig. 599.

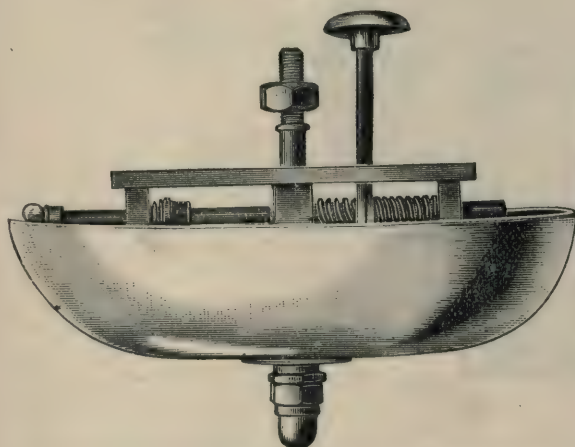


Size of Shank, Screwed Iron Pipe Thread.....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 598, Finished, Price Each.....	80	1.00	1.35
" N. Plated, " "	95	1.15	1.55
" 599, Finished, " "	65	75	1.00
" N. Plated, " "	80	90	1.20

Gong Bells for Fire Engines, Hose Reels, Etc.

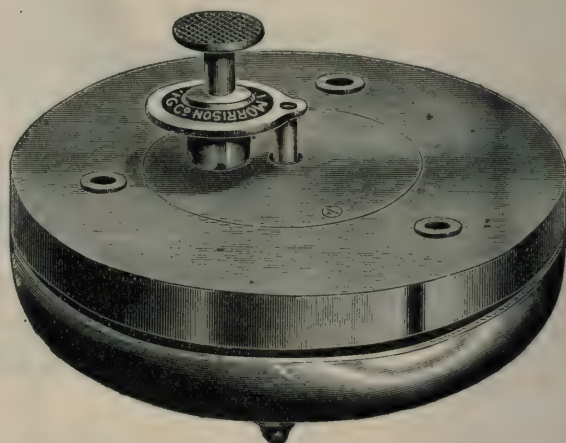
Single Stroke.

Fig. 603.



Repeating Gong.

Fig. 604.



	FINISHED BELL	FINISHED AND N. PLATED BELL
Fig. 603. Single Stroke, 12 in., price each	26.00	27.00
" 604. Repeating Gong, 13 in., " "	31.00	32.00

Gong Bell Cranks.

Fig. 605. END.

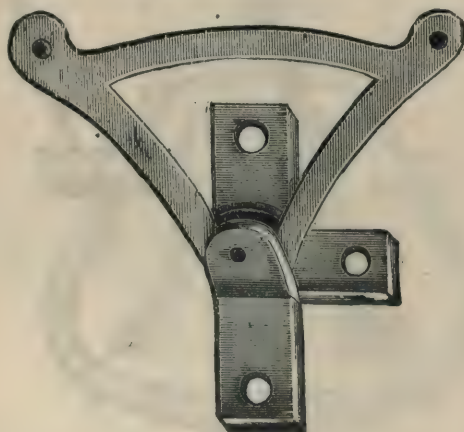
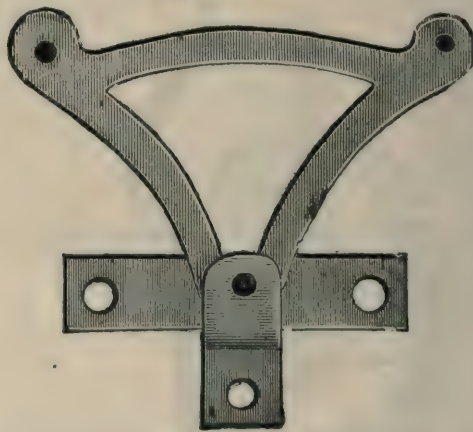


Fig. 606. SIDE.



DESCRIPTION.	FIG. 605. END.	FIG. 606. SIDE.
Rough, 2½ in. radius, price each	50	50
Finished, 2½ in. radius, price each	75	75

Gong Bell Cranks.

Fig. 607.—End.

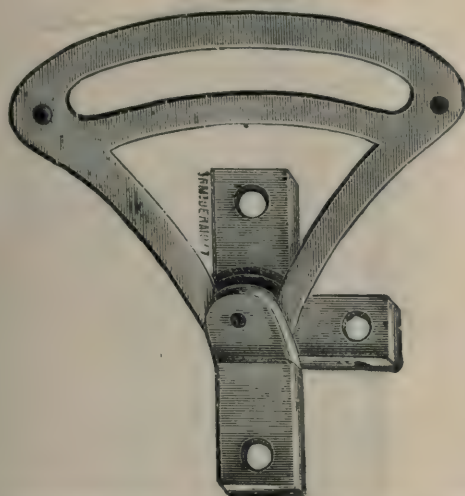
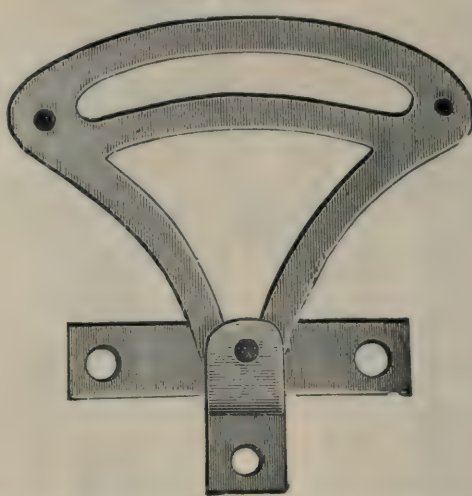


Fig. 608.—Side.



Radius of Crank, Inches.....	2 $\frac{5}{8}$	3 $\frac{5}{8}$
Fig. 607, End, Rough, Price Each	60	75
" " Finished, " "	85	1.00
" 608, Side, Rough, " "	60	75
" " Finished, " "	85	1.00

Chains, Links and Pulleys for Ship Telegraphs.

Fig. 609.



Fig. 610.



Fig. 611.



Fig. 612.



Fig. 613.



Fig. 614.



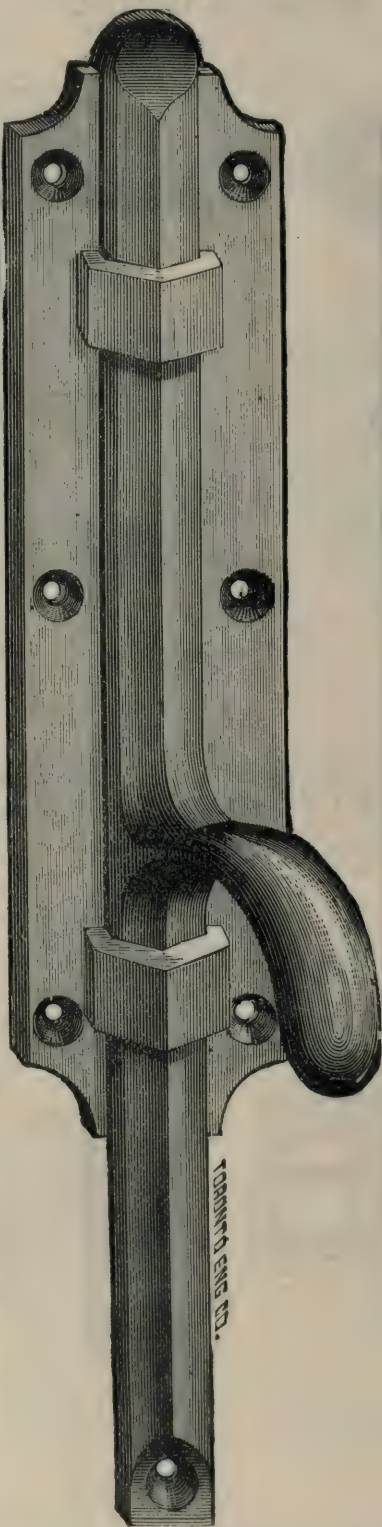
Fig. 609, Single and Double Link Brass Chain,	-	-	-	-	-	Price per Foot	45c.
" 610, Double and Triple Link Copper Chain,	-	-	-	-	-	" " "	25c.
" 611, Steel Cable Wire,	-	-	-	-	-	" " "	06c.
" 612, Brass Connecting Links,	-	-	-	-	-	" Each	15c.
" 613, Friction Rollers for Steel Cable,	Price Each.	1 WHEEL	2 WHEEL	3 WHEEL	4 WHEEL		
" 614, Pulley Wheels with Iron Frame for chain,	"	40	60	80	1.00		
		40	90	1.35	1.80		

GONG BELL PULLS.

No. 1.—Fig. 615.

Nos. 2, 3, 4.—Fig. 616.

No. 5.—Fig. 617.



Number	1	2	3	4	5
Length of Stroke, inches	2	1 $\frac{3}{4}$	2 $\frac{1}{2}$	3 $\frac{3}{4}$	4
Finished. Price, each.....	80	1.50	2.00	3.00	3.75
N. Plated	90	1.65	2.20	3.20	4.00

Ship Fittings.

Name Plates.

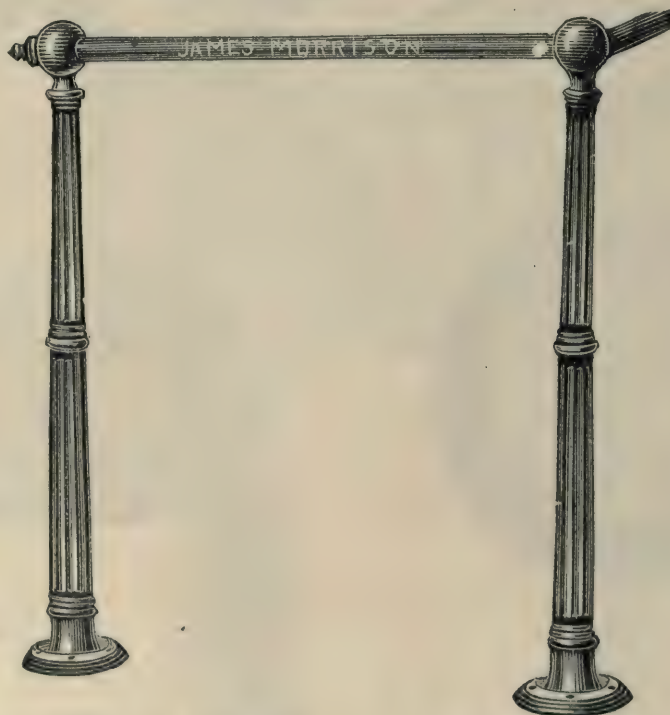
Fig. 624.



Nickel Plated..... Price. each, \$1.35

Hand Rails for Engine Rooms, Etc.

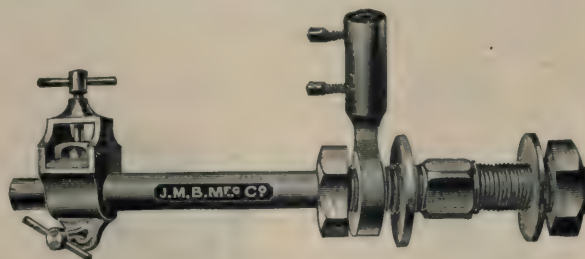
Fig. 625



Standards	{	With Iron Tops, for 1 inch pipe.....	Price, each, \$1.75
Iron.	{	" Brass " " 1 1/4 " brass tubes. Finished.....	" " 3.00
Bronzed.	{	" " " " 1 1/4 " " " " and plated....	" " 3.50
1 inch Iron Pipe.		Bronzed.....	Price per foot, 15
1 1/4 " Brass Tube.		Polished.....	" " 50
1 1/4 " " "		" and N. Plated.....	" " 64

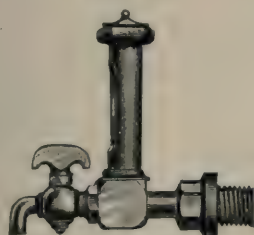
Brass Fittings for Dynamos.

Fig. 626.



Brush Holder.

Fig. 627.



Sight Oil Gauge.

Fig. 628.



Large Eye Bolt.

Fig. 629.



Small Eye Bolt.

Fig. 629½.

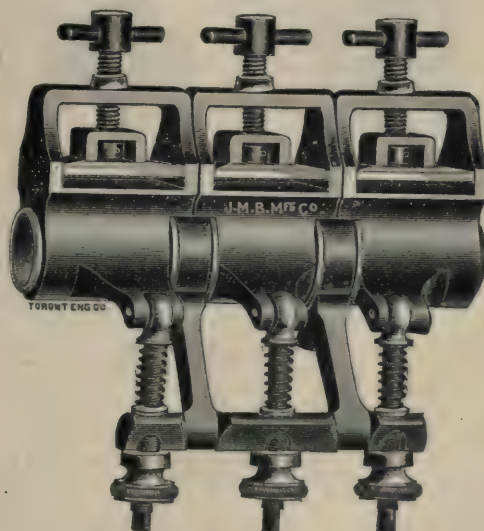


Carbon Spring.

Fig. 626.	Brush Holder, Spindle, and Cable Connection.	Price, each.....	\$6.00
" 627.	Sight Oil Gauge	" "	1.90
" 628.	Large Eye Bolt	" "	60
" 629.	Small Eye Bolt	" "	45
" 629½.	Carbon Spring	" "	60

Brush Holder.

Fig. 630.



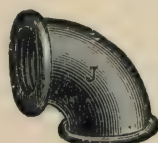
Price, each.....\$11.00

Brass Fittings for Steam or Water.

Screwed Iron Pipe Thread.

Elbows.

Fig. 631.



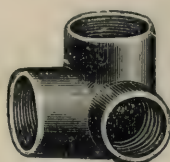
Elbow.

Fig. 632.



Street Elbow.

Fig. 633.



Elbow, Side Outlet.

Fig. 634.

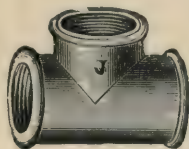


Drop Elbow, Female.

Size		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
ROUGH	Fig. 631. Elbows, price each	10	12	16	25	35	50	85	1.15	1.50	3.00	5.00	7.00	10.00
	“ “ Reducing, “ “	....	14	19	29	40	57	98	1.32	1.72	3.45	5.75	8.00	11.50
	“ “ 45° - “ “	....	20	25	35	50	70	1.05	1.40	1.80	3.75	6.00	8.50	10.00
	“ 632. Street Elbows “	....	....	30	40	60	85	1.20	1.90	2.50	....	....	....	....
	“ 633. Side Outlet “	....	....	....	40	70	1.00	1.35	1.70	....	....	....	....	....
FINISHED	“ 634. Drop Elbows “	....	20	30	40	60	85	1.20	1.90	2.50	....	....	....	....
	Fig. 631. Elbows price each	15	18	24	35	45	65	1.10	1.50	2.00	3.75	6.50	9.00	12.50
	“ “ Reducing, “ “	....	20	27	40	51	75	1.25	1.72	2.30	4.25	7.50	10.40	14.00
	“ “ 45° - “ “	....	30	35	50	65	85	1.25	1.75	2.30	4.50	7.50	9.00	12.50
	“ 632. Street Elbows “	....	....	40	50	70	1.00	1.45	2.25	3.00	....	....	....	....
	“ 633. Side Outlet “	....	....	....	65	1.00	1.40	1.90	2.50	....	....	....	....	....
“ 634. Drop Elbows “	....	30	40	50	70	1.00	1.45	2.25	3.00	....	....	....	....

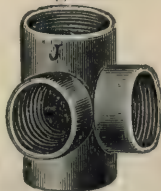
Tees and Crosses.

Fig. 635.



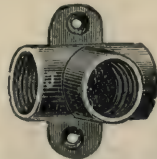
Tees.

Fig. 636.



Tees Side Outlet.

Fig. 637.



Drop Tees, Female.

Fig. 638.



Crosses.

Size														
		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
ROUGH	Fig. 635. Tees - price each	12	15	20	30	45	70	1.00	1.25	1.75	4.00	6.00	9.00	13.00
	" " Reducing, " "	....	17	23	35	52	80	1.15	1.44	2.00	4.60	6.90	10.35	15.00
	" 636. " Side Outlet " "	....	....	....	40	70	1.00	1.35	1.70	....	....	....	....	....
	" 637. Drop Tees " "	....	....	35	45	70	1.05	1.50	2.25	3.00	....	....	....	....
	" 638. Crosses, " "	15	20	30	40	55	80	1.15	1.40	1.95	4.25	6.50	10.00	14.50
FINISHED	" " Reducing " "	....	23	35	46	63	92	1.32	1.60	2.25	4.85	7.35	11.50	16.50
	Fig. 635. Tees - " "	20	25	35	50	65	1.00	1.50	2.00	2.75	5.50	8.00	11.50	16.00
	" " Reducing " "	....	28	40	57	75	1.15	1.70	2.30	3.15	6.25	9.25	13.00	18.00
	" 636. " Side Outlet " "	....	....	....	65	1.00	1.40	1.90	2.50	....	....	....	....	....
	" 637. Drop Tees " "	....	....	50	65	90	1.35	2.00	3.00	4.00	....	....	....	....
	" 638. Crosses, " "	30	35	55	70	85	1.25	1.90	2.50	3.50	6.25	9.50	13.00	18.00
	" " Reducing " "	....	40	60	80	95	1.40	2.10	2.80	4.00	7.00	11.00	15.00	20.50

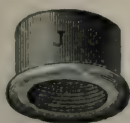
Revised Price List of BRASS FITTINGS for IRON PIPE.

Size, Inches.....	¾	¼	⅜	½	¾	1	1¼	1½	2	2½	3	3½	4
Fig. 631. Elbows. Rough. Price, each	12	17	21	28	35	50	85	1.10	1.50	3.50	4.50	7.00	10.00
" " Reducing " "	.....	22	26	35	45	62	1.10	1.40	1.90	4.40	5.65	8.75	12.50
" 635. Tees. " "	15	20	30	40	50	75	1.00	1.30	1.75	4.00	5.50	9.00	13.00
" 635. Reducing " "	.....	25	38	50	63	95	1.25	1.65	2.20	5.00	6.90	11.25	16.25
" 638. Crosses. " "	.....	30	40	50	60	80	1.50	2.00	3.50	5.00	7.00	10.00	14.50
" 638. Reducing " "	.....	38	50	65	75	1.00	1.90	2.50	4.40	6.25	8.75	12.50	18.00
" 641. Couplings. Red'c'g " "	.....	16	22	32	45	65	90	1.12	1.85	3.00	4.50	.....	.....
" 640. Plugs. " "	.....	10	12	15	20	28	40	50	90	1.25	2.00	3.00	4.00
" 639. Caps. " "	15	15	20	25	35	45	60	80	1.10	2.00	3.00	.....	.....
" 643. Lock Nuts. " "	.....	10	12	15	20	30	45	70	95	1.50	2.75	.....	.....
" 644. Bushings. " "	.....	10	12	14	21	38	50	67	1.00	1.50	2.50	.....	.....
" 642. Street Elbows. " "	.....	.....	.....	55	75	1.00	1.80	.....	.....	.....	.....	.....	.....
" 642. Couplings. " "	10	14	16	25	37	50	60	90	1.35	2.40	3.50	.....	.....
" 642. " R. and Left " "	.....	17	20	30	45	60	75	1.12	1.75	.....	.....	.....	.....
" 645. Unions, Ground J'nt " "	32	36	50	70	90	1.25	1.70	2.50	3.60	6.00	7.75	.....	.....
" 646. Close Nipples. " "	12	15	20	25	30	40	60	90	1.25	2.50	3.50	.....	.....
" 646. Long " " "	15	20	30	35	45	60	90	1.25	1.60	3.00	4.50	.....	.....
" 631. Elbows. Finished. " "	24	34	42	56	70	1.00	1.70	2.20	3.00	7.00	9.00	14.00	20.00
" 631. Reducing. " "	.....	44	52	70	90	1.25	2.20	2.80	3.80	8.80	11.30	17.50	25.00
" 635. Tees. " "	30	40	60	80	1.00	1.50	2.00	2.60	3.50	8.00	11.00	18.00	26.00
" 635. Reducing. " "	.....	50	76	1.00	1.25	1.90	2.50	3.30	4.40	10.00	13.80	22.50	32.50
" 638. Crosses. " "	.....	60	80	1.00	1.25	1.60	3.00	4.00	7.00	10.00	14.00	20.00	29.00
" 638. Reducing. " "	.....	75	1.00	1.30	1.50	2.00	3.80	5.00	8.80	12.50	17.50	25.00	36.00
" 641. Couplings. Red'c'g " "	.....	32	44	64	90	1.30	1.80	2.25	3.70	6.00	9.00	.....	.....
" 640. Plugs. " "	18	20	24	30	40	56	80	1.00	1.80	2.50	4.00	6.00	8.00
" 639. Caps. " "	30	30	40	50	70	90	1.20	1.60	2.20	4.00	6.00	.....	.....
" 643. Lock Nuts. " "	.....	20	24	30	40	60	90	1.40	1.90	3.00	5.50	.....	.....
" 644. Bushings. " "	.....	20	24	28	42	76	1.00	1.35	2.00	3.00	5.00	.....	.....
" 623. Street Elbows. " "	.....	.....	.....	83	1.10	1.50	2.65	.....	.....	.....	.....	.....	.....
" 642. Couplings. " "	20	28	32	50	75	1.00	1.20	1.80	2.70	4.80	7.00	.....	.....
" 642. " R. and Left. " "	.....	31	36	55	82	1.10	1.35	2.00	3.10	.....	.....	.....	.....
" 645. Unions, Ground J'nt " "	35	40	55	75	1.00	1.40	1.90	2.75	4.00	6.50	8.50	.....	.....

Brass Fittings.

Screwed Iron Pipe Thread.

Fig. 639.



Caps.

Fig. 640.



Plugs.

Fig. 641.



Red'g. Couplings.

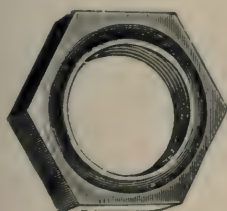
Fig. 642.



Couplings.

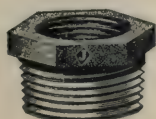
Size	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
FINISHED.	ROUGH.												
	Fig. 639, Caps	price each	08	10	15	20	30	40	60	75	1.25	2.00	3.00
	" 640, Plugs	"	06	08	10	15	20	25	40	50	.90	1.50	2.25
	" 641, Red'g. Couplings	"	...	...	14	20	30	35	50	65	1.25	2.50	4.00
	" 642, Couplings,	"	08	10	15	20	30	40	60	75	1.25	2.00	3.00
	" " R. & Left	"	...	17	20	30	45	60	75	1.12	1.75	...	...
	" 639, Caps	"	13	15	20	25	35	45	70	85	1.55	2.50	3.75
	" 640, Plugs	"	10	12	15	20	25	30	50	70	1.20	2.00	3.00
	" 641, Red'g. Couplings	"	...	...	20	25	35	40	60	75	1.55	3.00	5.00
	" 642, Couplings	"	13	15	20	25	35	45	70	85	1.55	2.50	3.75
	" " R. & Left	"	...	30	40	60	90	1.20	1.50	2.25	3.50	...	...

Fig. 643.



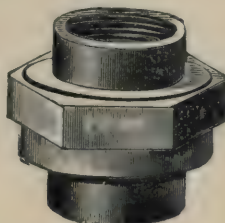
Lock Nut.

Fig. 644.



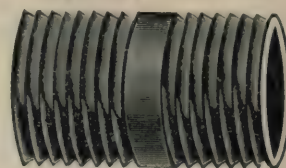
Bushing.

Fig. 645.



Union, Ground Joint.

Fig. 646.



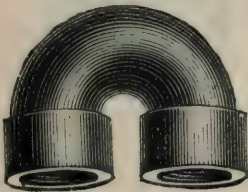
Nipple.

Size		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3		
FIN.	{	ROUGH.	Fig. 643, Locknuts . . . price each	08	08	10	15	20	25	40	50	90	1.75	2.75
		" 644, Bushing, Red'g 1 Size "	..	07	09	13	21	38	50	67	84	1.50	2.50	
		" 644, " " 2 "	..	..	09	13	21	38	50	67	84	1.50	2.50
		" 645, Unions "	..	38	50	70	90	1.25	1.75	2.50	3.75	5.00	7.50	
		" 646, Nipples, Close . . . "	12	15	20	25	30	40	60	.90	1.25	2.50	3.50	
		" 646, " to 4 in Long "	15	20	30	35	45	60	90	1.25	1.60	3.00	6.00	
		" 643, Locknuts "	10	10	12	18	23	30	45	.55	1.00	1.90	3.00	
		" 645, Unions, Ground Joints "	35	40	55	75	1.00	1.40	1.90	2.70	4.00	6.00	8.50	

Brass Fittings.

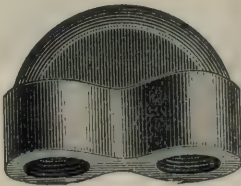
Screwed Iron Pipe Thread.

Fig. 647.



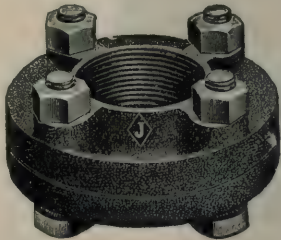
Return Bend—Open.

Fig. 648.



Return Bend—Close.

Fig. 649.



Flange Union.

Size.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 647. Return Bend, Open, Rough. Price, each..	50	80	1.00	1.50	2.25	3.00
" 648. " " Close, " " ..	40	70	90	1.25	2.00	2.75
" 647. " " Open, Finished. " " ..	70	1.00	1.80	2.00	3.00	4.00
" 648. " " Close, " " ..	60	90	1.20	1.75	2.75	3.75

Brass Flange Unions.

Size	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Rough. Price, each.....	3.50	3.50	3.75	4.25	5.60	6.50	8.50	10.50	13.50	15.00	20.00	22.00	27.00

Extra Heavy Brass Fittings.

Made From Cast Iron Fitting Patterns.

Size.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Elbows, Rough. Price, each	50	85	1.05	1.65	2.10	3.00	5.50	8.50	10.50	12.00	15.00	18.00	27.00
" Red'g. " " ..	58	95	1.20	1.90	2.40	3.45	6.30	9.75	12.00	13.75	17.25	20.70	31.00
" 45° " " ..	45	70	1.20	1.65	2.00	3.00	5.50	8.50	10.50	12.00	15.00	18.00	27.00
Tees. " " ..	65	1.00	1.50	2.00	3.00	4.50	7.50	11.00	13.00	15.50	20.00	25.00	34.00
" Red'g. " " ..	75	1.15	1.70	2.30	3.45	5.20	8.60	12.50	15.00	17.50	23.00	28.00	.....
Crosses. " " ..	90	1.30	1.80	2.75	4.00	5.25	9.00	14.00	17.00	19.00	26.00	30.00	48.00
" Red'g. " " ..	1.04	1.50	2.10	3.15	4.60	6.00	10.35	16.00	19.50	21.50	29.00	34.00	55.00
Return Bends, Open. " " ..	1.00	1.25	2.00	3.25	4.50	6.00	9.25	15.50	19.00	25.00	.....	.....	.....
" " Close, " " ..	1.00	1.15	1.50	2.30	3.30	4.50	9.00	13.00	18.00	23.00	.....	.....	.....

Brass Railing Fittings.

Finished.

Fig. 650.



Fig. 651.



Fig. 652.



Fig. 653.



Fig. 654.



Fig. 655.



Fig. 656.



Fig. 657.



Fig. 658.



DESCRIPTION.	FINISHED.					NICKEL PLATED.				
Size, Screwed Iron Thread Pipe...	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 650, Elbow, .....price each	70	.80	1.20	1.60	2.50	.90	1.00	1.50	2.00	3.00
" 651, " Side Outlet, "	90	1.10	1.70	2.00	3.00	1.10	1.30	2.00	2.40	3.50
" 652, Tee, "	90	1.10	1.70	2.00	3.00	1.10	1.30	2.00	2.40	3.50
" 653, " Side Outlet, "	1.30	1.50	2.00	2.40	3.50	1.60	1.90	2.50	3.00	4.25
" 654, Cross, "	1.30	1.50	2.00	2.40	3.50	1.60	1.90	2.50	3.00	4.25
" 655, " Side Outlet, "	1.50	1.70	2.25	3.00	4.00	2.00	2.25	3.00	4.00	5.00
" 656, Floor Flange, "	.40	.55	.75	1.00	1.30	.50	.70	.95	1.30	1.75
" 657, Acorn Ornament, "	1.50	2.00	2.50	3.25	4.50	1.75	2.30	2.90	3.75	5.25
" 658, Bushing, "	.15	.25	.35	.45	.60	.25	.40	.55	.75	1.00

In ordering these Railing Fittings be careful to state whether Right Hand or Left Hand Threads are wanted. Where Fittings are required having Right and Left Hand Outlets, please fully describe which are wanted RIGHT HAND and which LEFT HAND. A careful observance of the above will save much trouble and secure the accurate filling of your orders.

Railings.

Fig. 659.



Fig. 660.



PLEASE READ THIS NOTICE WITH CARE:—To Construct a Railing Two Pipes high, the upper outlet of all Fittings used in lower pipe should be tapped with LEFT HAND THREAD, but when orders are sent us without specifying how outlets are to be tapped, *all Fittings will invariably be furnished Right Hand.*

Brass Rod.

Diameter. Inches	1/16	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1
Weight per foot for Round. Lbs.	.011	.045	.100	.175	.275	.395	.54	.71	.90	1.10	1.35	1.66	1.85	2.15	2.85
Weight per foot for Square. Lbs.	.015	.055	.125	.225	.350	.51	.69	.91	1.15	1.40	1.72	2.05	2.40	2.75	3.65
Round. Price per lb	30	30	26	24	24	24	24	24	24	24	24	24	24	24	24
Hexagon. "	32	32	28	26	26	26	26	26	26	26	26	26	26	26	26
Octagon. "	32	32	28	26	26	26	26	26	26	26	26	26	26	26	26
Square. "	32	32	28	26	26	26	26	26	26	26	26	26	26	26	26
Half-round "	34	34	30	28	28	28	28	28	28	28	28	28	28	28	28

Brass Rod—CONTINUED.

Diam. Inches.	1 1/16	1 1/8	1 3/16	1 1/2	1 5/16	1 3/8	1 7/16	1 1/2	1 9/16	1 5/8	1 11/16	1 3/4	1 13/16	1 7/8	1 15/16	2
Weight per foot Round. Lbs..	3.20	3.57	3.97	4.41	4.86	5.35	5.85	6.37	6.92	7.48	8.05	8.65	9.29	9.95	10.58	11.25
Weight per foot Square. Lbs..	4.08	4.55	5.08	5.65	6.22	6.81	7.45	8.13	8.83	9.55	10.27	11.00	11.82	12.68	13.50	14.35
Round. Per lb.	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Hexagon. "	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Octagon. "	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Square. "	29	29	29	29	26	29	29	29	29	29	29	29	29	29	29	29
Half-round. "	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

Copper Rod.

Diameter. Inches.....	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2
Weight per ft.,Round. Lbs.	.43	.76	1.18	1.70	2.31	3.02	3.83	4.72	5.72	6.81	7.99	9.27	10.64	12.10
Weight per ft.,Square. Lbs.	.54	.96	1.51	2.17	2.95	3.86	4.88	6.03	7.29	8.68	10.18	11.81	13.56	15.43
Round. Price per lb	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Square. "	35	35	35	35	35	35	35	35	35	35	35	35	35	35

Brass Spring Wire.

No. of Wire Gauge	6	7	8	9	10	11	12	13	14	15	16	17	18	20
Diameter of Wire. Inches .....	.192	.177	.162	.148	.135	.120	.105	.092	.080	.072	.063	.054	.047	.033
Price per lb.....	27	27	27	27	27	27	27	27	27	27	27	27	27	27

Roll and Sheet Brass, Brown & Sharpe's Gauge.

Width { FROM TO	In. 2	In. 10	In. 12	In. 14	In. 16	In. 18	In. 20	In. 22	In. 24	In. 26	In. 28	In. 30	In. 32	In. 34
	10	12	14	16	18	20	22	24	26	28	30	32	34	36
To No.20. W.G. Price per lb.	24	25	26	28	30	32	34	36	39	42	45	49	53	58
21 to 24. " "	25	26	27	29	31	33	35	37	40	43	46	50	54	59
25 and 26. " "	26	27	28	30	32	34	36	38	41	44	47	51	55	60
27 and 28. " "	26	27	28	31	33	35	37	39	42	45	48	52	56	61

Sheet Copper.

Braziers' Copper.

SIZE OF SHEET.		WEIGHT PER SQUARE FOOT IN OUNCES.							
		64 OZ. AND OVER	32 OZ. AND UP TO 64 OZ.	16 OZ. AND UP TO 32 OZ.	14 OZ. AND UP TO 16 OZ.	12 OZ. AND UP TO 14 OZ.	10 OZ. AND UP TO 12 OZ.	8 OZ. AND UP TO 10 OZ.	LIGHT- ER THAN 8 OZ.
Not Wider	{ Not Longer than 72 in.	33	33	33	35	36	39	44	47
then 30 in.	{ Longer than 72 in.....	33	33	33	35	39	41	48	..
30½ to 36	{ Not Longer than 96 in.	33	33	33	37	40	47	52	..
in. Wide	{ Longer than 96 in.....	33	33	35	39	42	48	55	..
36½ to 48	{ Not Longer than 96 in.	33	33	36	40	44	51	..	..
in. Wide	{ Longer than 96 in.....	33	33	39	41	45	52	..	..
48½ to 60	{ Not Longer than 96 in.	33	33	41	45	53	..	..	..
in. Wide	{ Longer than 96 in.....	33	35	44	..	..	..	..	..
60½ to 84	{ Not Longer than 96 in.	35	36	..	..	..	..	..	..
in. Wide	{ Longer than 96 in.....	36	39	..	..	..	..	..	..
Wider than 84 in.....		39	41	..	..	..	..	..	..

Cold or Hard Rolled Copper: For 14 oz. per square foot and heavier, add per lb. to the foregoing prices 2 cents.

Cold or Hard Rolled Copper: For lighter than 14 oz. per square foot, add per lb. to the foregoing prices 4 cents.

Tinning Copper Sheets.

Tinning Sheets on one side, 10, 12 & 14 x 48 in.,	price per sheet	\$0.13
“ “ “ “ “ 30 x 60 in.,	“ “ “	50
“ “ “ “ “ other sizes,	“ sq. foot	05

German Silver in Sheets and Rolls.

THICKNESS No. 20 BROWN & SHARPE'S GAUGE AND HEAVIER, WIDTH 2 TO 8 INCHES.

	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	18%	20%
Price per lb. - -	44	45	47	48	51	52	53	55	57	59	60	61	64	67	72

German Silver: Thinner than No. 20 to No. 26 B. & S. Gauge, 2 cents per lb. over above price.

“ “ Wider than 8 in., advance 4 cents per lb. for each additional inch.

Sheet Brass.

Size of Sheet, 4 x 2 feet, any thickness up to No. 20 W.G..... price per lb. \$0.40

Weight of Sheet Brass.

Brown & Sharpe's Gauge.

No. of Gauge.	Thickness of each No. in Inches.	Weight per square foot in lbs.	No. of Gauge.	Thickness of each No. in Inches.	Weight per square foot in lbs.
0000	.46	19.688	19	.035890	1.5361
000	.40964	17.533	20	.03196	1.3679
00	.36480	15.613	21	.028462	1.2182
0	.32486	13.904	22	.025347	1.0849
1	.28930	12.382	23	.022571	.96604
2	.25763	11.027	24	.020100	.86028
3	.22942	9.8192	25	.017900	.76612
4	.20431	8.7445	26	.01594	.68223
5	.18194	7.787	27	.014195	.60755
6	.16202	6.9345	28	.012641	.54103
7	.14428	6.1752	29	.011257	.48180
8	.12849	5.4994	30	.010025	.42907
9	.11443	4.8976	31	.008928	.38212
10	.10189	4.3609	32	.007950	.34026
11	.090742	3.8838	33	.007080	.30302
12	.080808	3.4586	34	.006304	.26981
13	.071961	3.0799	35	.005614	.24028
14	.064084	2.7428	36	.005000	.2140
15	.057068	2.4425	37	.004453	.19059
16	.050820	2.1751	38	.003965	.1697
17	.045257	1.937	39	.003531	.15113
18	.040303	1.725	40	.003144	.13456

Thickness in Inches.	Weight per square foot in lbs.	Thickness in Inches.	Weight per square foot in lbs.	Thickness in Inches.	Weight per square foot in lbs.
$\frac{1}{16}$	2.7	$\frac{3}{8}$	16.25	$\frac{11}{16}$	29.77
$\frac{1}{8}$	5.41	$\frac{7}{16}$	19.00	$\frac{3}{4}$	32.46
$\frac{3}{16}$	8.12	$\frac{1}{2}$	21.65	$\frac{13}{16}$	35.18
$\frac{1}{4}$	10.76	$\frac{9}{16}$	24.30	$\frac{7}{8}$	37.85
$\frac{5}{16}$	13.48	$\frac{5}{8}$	27.12	$\frac{15}{16}$	40.50

Metals.

Ingot Copper	} AT MARKET PRICES.
Pig Tin	
Antimony	
Spelter	
Pig Lead	

Steam Packing, Etc.

Sheet Rubber Packing.

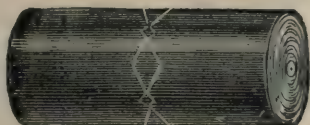
Fig. 662.



Thickness, Inches	$\frac{1}{32}$	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$
1 Ply, Cloth on one side, or middle, price per pound	60	60	55	55	55	55
2 " " both sides, or one side and middle "	63	63	58	58	58	58
3 " " " and middle "	66	66	61	61	61	61
Pure Sheet Packing or Valve Gum . . . . . "	....	....	....	....	....	1.40

Rainbow Sheet Packing.

Fig. 663.



Plumbago Sheet Packing.

Fig. 664.



Thickness, Inches	$\frac{1}{32}$	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$
Fig. 663, Rainbow, price per pound	85	85	85	85	85	85
" 664, Plumbago, " "	60	60	60	60	60	60

Asbestos Sheet, or Mill Board Packing.

(NOT ILLUSTRATED.)

Thickness of Sheet, Inches	$\frac{1}{32}$	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{1}{4}$
Size of Sheet, 42 x 44 in . Price per pound	15	15	15	15

Piston Packing.

Square Braid Flax Packing

Fig. 665.



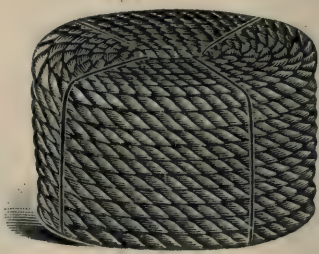
Asbestos Rope Packing.

Fig. 666.



Soap Stone and Italian Hemp Packing.

Fig. 667.



Size, Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$
Fig. 665. Clinton Brand..... Price per lb.	60	60	60	60	60	60	60	60	60	60
“ “ Banner Brand	45	45	45	45	45	45	45	45	45	45
Fig. 666. Asbestos Rope Packing “ “	54	54	54	54	54	54	54	54	54	54

Fig. 667.	Soap Stone Packing, in 5 or 10 lb. Coils							price per lb.	\$0.40
	Italian Hemp Packing in 25 lb. Coils, Class A							“ “	0.25
	“ “ “ “ “ “ “ “ B							“ “	0.20

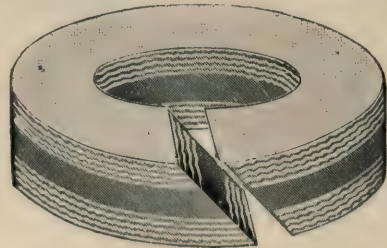
The “Carlock” Piston Packing.

Fig. 668.



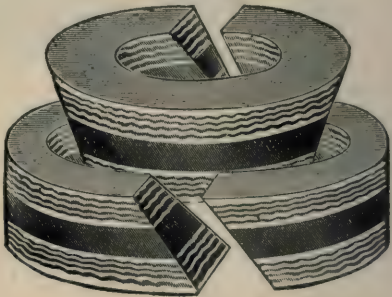
Spiral Ring Packing.

Fig. 669.



Plain Ring Packing.

Fig. 670.



Sectional Ring Packing.

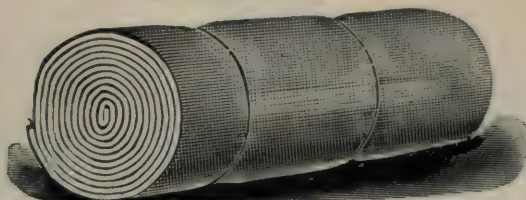
Size, Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
Approx. Weight per Box of 12 feet. Lbs....	$\frac{1}{2}$	$1\frac{1}{2}$	$2\frac{1}{2}$	$3\frac{1}{2}$	$5\frac{1}{2}$	$6\frac{1}{2}$	9
Fig. 668. Spiral Ring Packing. Price per lb.	1.20	1.20	1.20	1.20	1.20	1.20	1.20

Fig. 669. Plain Ring Packing.	Only made to order.....	Per lb.	\$1.20
“ 670. Sectional Ring “	“ “ “ “	“	1.20

Steam Pipe and Boiler Coverings.

Hair Felt.

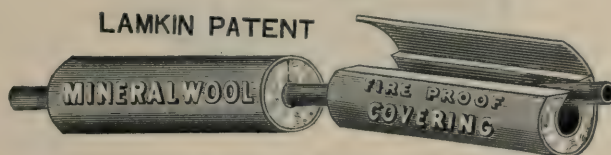
Fig. 671.



Thickness, Inches	$\frac{1}{2}$	$\frac{3}{4}$	1
In Rolls 6 Feet Wide	06 $\frac{1}{2}$	08	09
Price per Square Foot			

Mineral Wool Sectional Pipe Covering.

Fig. 672.



Sections 3 Feet Long.

Size of Pipe, Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$
Fibre Casing, price per foot	18	19	21	23	25	27	30	35	39
Asbestos " " " "	20	21	23	25	27	30	33	37	41
Casing, Canvas Covered, per foot	20	21	23	25	27	30	33	37	41

CONTINUED.

Size of Pipe, Inches	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12
Fibre Casing, price per foot	42	46	50	55	63	70	76	83	95
Asbestos " " " "	45	50	54	59	65	75	81	87	1.00
Casing, Canvas Covered, per foot	45	50	54	59	65	75	81	87	1.00

Mineral Wool in Bulk.

NOT ILLUSTRATED.

Ordinary Wool, Average Weight per Cubic Foot	14 lbs.	-	-	price per 100 lbs.	\$2.50
Selected Wool, " " " "	10 lbs.	-	-	" " "	3.50
Extra Wool, " " " "	6 lbs.	-	-	" " "	5.00

Special prices for Car Load Quantities.

Asbestos Paper or Builders' Felt.

NOT ILLUSTRATED.

In Rolls 36 in. wide, (about 50 lbs. a Roll,)	-	-	-	-	price per pound	\$0.15
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Wick Packing.

Fig. 673.



Cotton Wick Packing, in 2 oz. Balls	price per lb.	\$0.30
Asbestos " " " $\frac{1}{4}$ or $\frac{1}{2}$ lb. Balls	" "	0.54

Cotton Waste.

Fig. 674.



White Machined, in 50 and 100 lb. Bales	price per lb.	\$0.13
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Dry Graphite Perfect Lubricator.

Fig. 675.



Graphite Pipe Joint Grease.

Fig. 676.

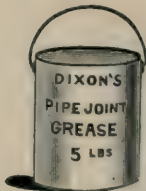


Fig. 675. Dixon's Dry Graphite Perfect Lubricator in 1 lb. Boxes	price per lb.	\$0.30
" 676. " Graphite Pipe Joint Grease " 5 lb. Cans	" "	0.35

Asbestos Cement for Boiler Covering.

NOT ILLUSTRATED.

Imported, in Bags, Dry - - - - -	Price per Bag	\$7.00
Canadian, in Barrels, Dry - - - - -	" " Barrel	4.00

NOTE.—A Barrel or Bag of Dry Cement when mixed will cover 40 Square Feet of Surface 1 inch thick.

Rubber Hose.

Water Hose.

Fig. 677. Ordinary.



Fig. 678. Kink Proof.



Size, Inside Diameter, Inches.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 677, 2 Ply, price per foot.....	20	25	33	42	50	66	83	99
" 677, 3 " " "	25	30	40	50	60	80	1.00	1.20
" 677, 4 " " "	30	37	50	62	75	1.00	1.25	1.50

Fig. 678, Kink Proof Hose. Same List as Fig. 677.

Steam Hose.

Size, Inside Diameter, Inches.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3
3 Ply, For 20 lbs. Steam Pres., per Foot	45	54	71	85	1.02	1.18	1.34	1.66	2.00
4 " " 35 " " " " " " " " " "	51	67	83	1.04	1.25	1.45	1.66	2.08	2.80
5 " " 50 " " " " " " " " " "	63	83	1.03	1.30	1.56	1.81	2.07	2.60	3.50
6 " " 75 " " " " " " " " " "	76	1.00	1.24	1.56	1.87	2.17	2.49	3.12	4.20

Oil Hose.

Size, Inside Diameter, Inches.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3
3 Ply, price per Foot.....	43	51	67	85	1.02	1.18	1.34	1.66	2.00
4 Ply, " " " " " " " " " " " "	51	67	83	1.04	1.25	1.45	1.66	2.08	2.80

Brewers' Hose.

Size, Inside Diameter, Inches.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3
3 Ply, price per Foot.....	43	51	67	85	1.02	1.18	1.34	1.66	2.00
4 Ply, " " " " " " " " " " " "	51	67	83	1.04	1.25	1.45	1.66	2.08	2.80

Rubber Tubing.

Size, Inside Diameter, Inches	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Plain, price per Foot.....	08	12	16	18	20	25	30	35	45
Cloth Insertion, price per Foot.....	10	14	18	20	23	28	33	38	50

Steam and Gas Fitters' Tools.

Stocks and Dies.

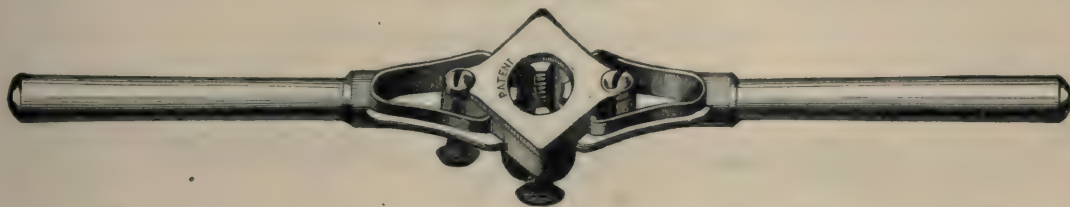
No. 00. Fig. 681.



No. 0. Fig. 682.

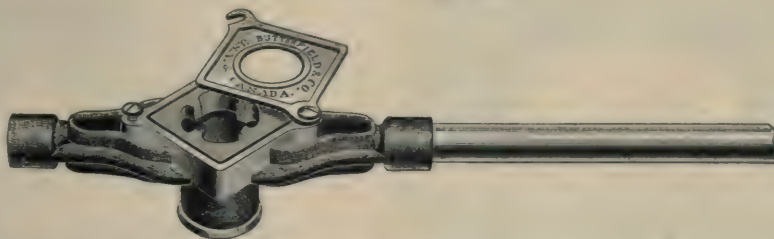


No. 00, With Loose Dies, Screws $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ in. Pipe	- - -	price each	8.00
No. 00, Extra Dies, Right or Left	- - -	"	1.00
No. 0, With Loose Dies, Screws $\frac{1}{2}$, $\frac{3}{4}$ and 1 in. Pipe	- - -	"	9.00
No. 0, Extra Dies, Right or Left	- - -	"	1.50

Nos. 1 & 1 $\frac{1}{2}$. Fig. 683.

No. 1, With Loose Dies, Screws $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ and 1 in. Pipe	- - -	price each	15.00
No. 1. Extra Solid Dies, $2\frac{3}{8}$ square x $\frac{3}{4}$ in. Thick, Right or Left	- - -	"	2.00
Extra Guides, for No. 1 Stocks	- - -	"	.35
No. 1 $\frac{1}{2}$, With Loose Dies, Screws $\frac{3}{4}$, 1 and 1 $\frac{1}{4}$ in. Pipe	- - -	"	13.50
No. 1 $\frac{1}{2}$, Extra Solid Dies, 3 in. square x $\frac{3}{4}$ Thick, Right or Left	- - -	"	2.50
Extra Guides for No. 1 $\frac{1}{2}$ Stocks	- - -	"	.45

No. 2 & 3. Fig. 684.

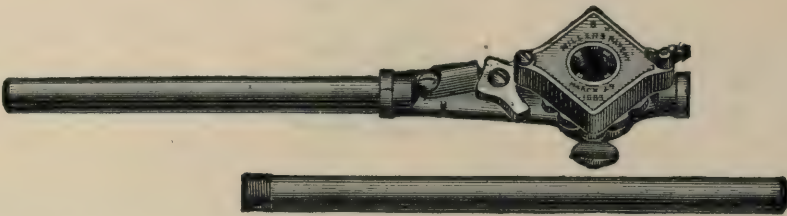


No. 2, With Loose Dies, Screws 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ and 2 in. Pipe	- - -	price each	23.50
No. 2, Extra Dies, $3\frac{7}{8}$ in. Square x $\frac{7}{8}$ in. Thick, Right or Left	- - -	"	3.50
Extra Guides, for No. 2 Stocks	- - -	"	.60
No. 3, With Loose Dies, Screws $2\frac{1}{2}$ and 3 in. Pipe	- - -	"	43.00
No. 3, Extra Dies 5 x 1 $\frac{1}{4}$ in.	- - -	"	9.00
No. 3, Extra Guides for No. 3 Stocks	- - -	"	1.00

Steam and Gas Fitters' Tools.

The "Miller" Ratchet Die Plate.

Fig. 685.



Number	A	B	C	D	E	
Size of Pipe Dies, Inches.....	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{4}$ to 1	1 to $1\frac{1}{2}$	$1\frac{1}{4}$ to 2	$2\frac{1}{2}$ to 3	
Dimensions of Dies, Inches.....	$2 \times \frac{1}{2}$	$2\frac{1}{2} \times \frac{3}{4}$	$3 \times \frac{3}{4}$	$4 \times \frac{7}{8}$	$5 \times 1\frac{1}{4}$	
Stocks with Right Hand Dies	Price, each	13.00	15.00	18.50	20.00	43.00
Stocks without Dies.....	“	7.50	7.50	13.00	12.50	29.00
Extra Dies, Right or Left Hand.....	“	1.10	1.50	1.80	2.50	7.00
Guides.....	“	.20	.25	.35	.45	.75
Die Frames.....	“	....	.22	.30	.38	.45

Screw Plates for Pump Rods.

Fig. 686.



No. 13, with 3 Pairs of Dies, cutting $\frac{3}{8}$, $\frac{7}{16}$ and $\frac{1}{2}$ in.....\$3.50
 $\frac{3}{8}$ Pump Rod Couplings are screwed 16, $\frac{7}{16}$ -14, $\frac{1}{2}$ -12 threads to the inch.

Solid Dies, Right or Left.

Fig. 687.



Die Frame.

Fig. 688.

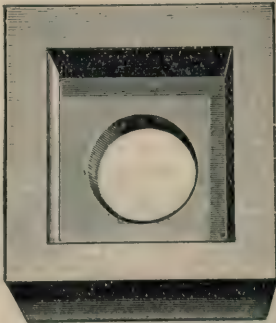


Fig. 687. For No. 1 Stocks, $2\frac{3}{8} \times \frac{3}{4}$, or $2\frac{1}{2} \times \frac{3}{4}$	Price, each	2.00
" $1\frac{1}{2}$ " $3 \times \frac{3}{4}$	"	2.50
" 2 " $3\frac{7}{8} \times \frac{3}{4}$, or 4×1	"	3.50
" 3 " $5 \times 1\frac{1}{4}$	"	9.00
" 688. Die Frame for No. 2 Stock.....	"	.50

Steam and Gas Fitters' Tools.

The "Jarecki" Patent Screw Plate and Pipe Cutter.

Fig. 689.



Number of Plate.....	1	2	3	3½	4 A	4 B	5	5 A
Size of Pipe, Cut and Screwed....	1/4 to 3/4 IN.	1/2 to 1 1/4 IN.	1 to 2 IN.	1 1/2 to 2 IN.	1 1/2 to 3 IN.	2 1/2 to 4 IN.	4 1/2 to 6 IN.	6 to 8 IN.
Price, each.....	14.00	16.00	20.00	22.50	35.00	50.00	75.00	125.00

List of Repairs for "Jarecki" Screw Plates.

Number of Plate.....	1	2	3	3½	4 A	4 B	5	5 A
Cam Plate, Scroll Plate, Collet and Cover. Price each	4.50	4.50	4.50	4.50	6.50	6.50	9.00	10.50
Large Ring	1.00	1.00	1.00	1.00	1.35	1.35	1.50	1.50
Small Ring and Scroll Plate Washers . . . . .	.75	.75	.75	.75	1.25	1.25	1.35	1.35
Guides Per set	3.00	3.00	3.00	3.00	4.50	4.50	9.00	9.00
Knife Case and Handle Price each	1.15	1.15	1.15	1.15	1.50	1.50	3.00	3.00
Stud Bolt, Stud and Collet Screw . . . . .	.40	.40	.40	.40	.55	.55	.70	.70
Thumb Screw, Hexagon Nut and Wrenches . . . . .	.25	.25	.25	.25	.25	.25	.25	.25
Washers and Screws, all kinds, not listed . . . . .	.10	.10	.10	.10	.15	.15	.15	.15
Handles . . . . .	.75	.75	.75	.75	1.15	1.15	1.15	1.15

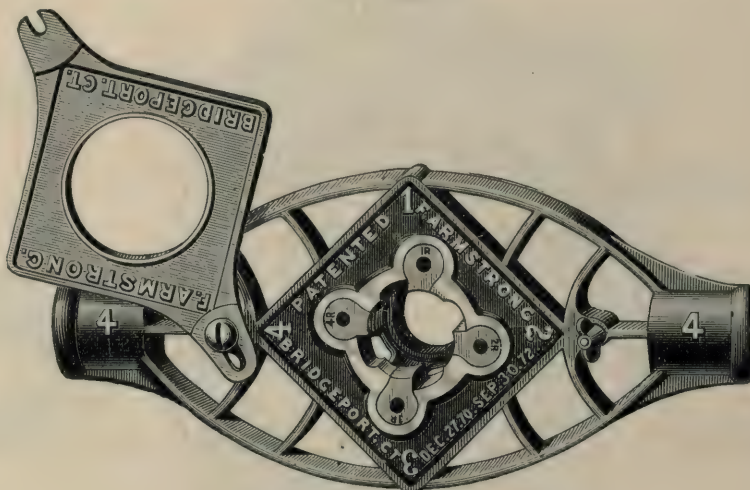
Extra Dies for Line Pipe and Casing Threads can be furnished at an additional cost.

The Nos. 1, 2, 3 and 3½ have Two Handles; Nos. 4A and 4B have Four Handles; No. 5 has Five Handles.

Steam and Gas Fitters' Tools.

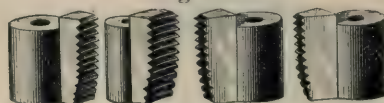
Armstrong's Sectional Stocks and Dies.

No. 4.—Fig. 690.



Cutters for Sectional Dies.

Fig. 691.



Sectional Block and Cutters.

Fig. 692.



Sectional Block Without Cutters.

Fig. 693.



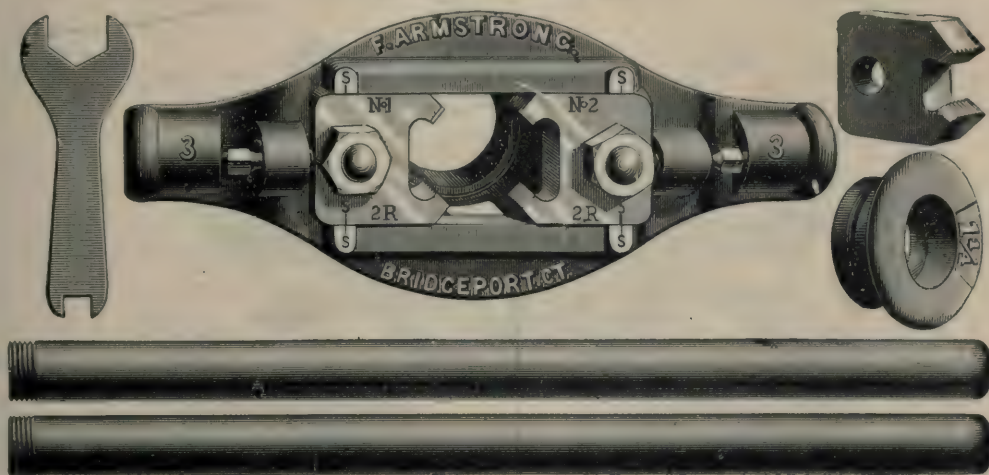
NUMBER OF STOCK AND SIZE OF PIPE SCREWED.		PRICE.
Fig. 690.	No. 4—Stock, screwing 1 in. to 2 in. pipe, complete.....	21.00
"	" " " 1½ in. to 2 in. " "	18.00
"	" Stock only	7.50
" 691.	" Cutters, Right or Left .....	.63
" 692.	" Blocks, with Cutters, Right or Left	3.00
" 693.	" " without "	1.00
"	" Bushings or Guides .....	.50

NOTE.—These Dies will fit any Stock taking 4 x 1 in. Dies.

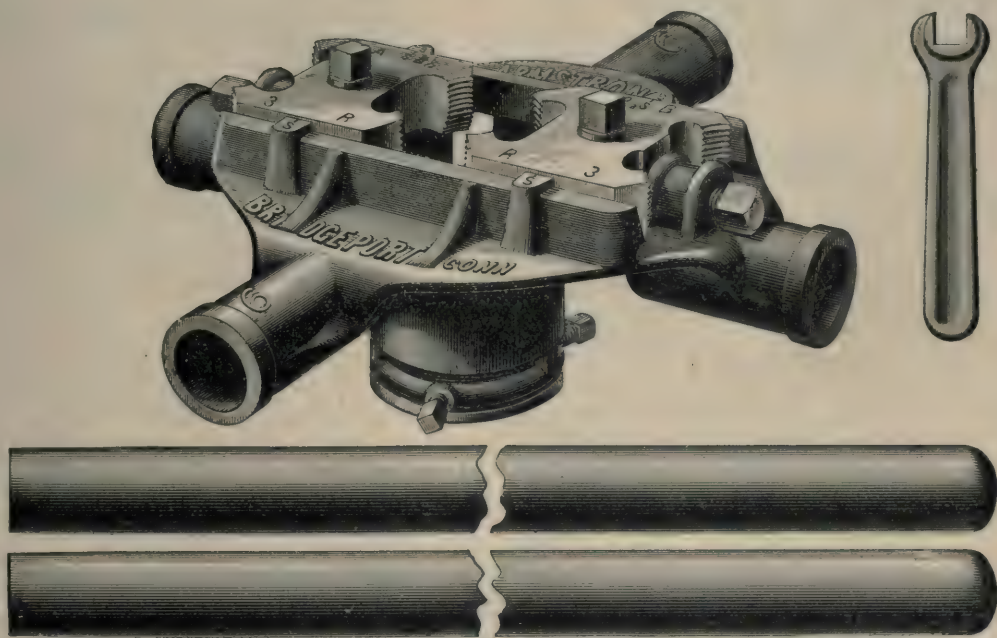
Steam and Gas Fitters' Tools.

Armstrong's Adjustable Stocks and Dies.

Nos. 1, 2 and 3.—Fig. 694.



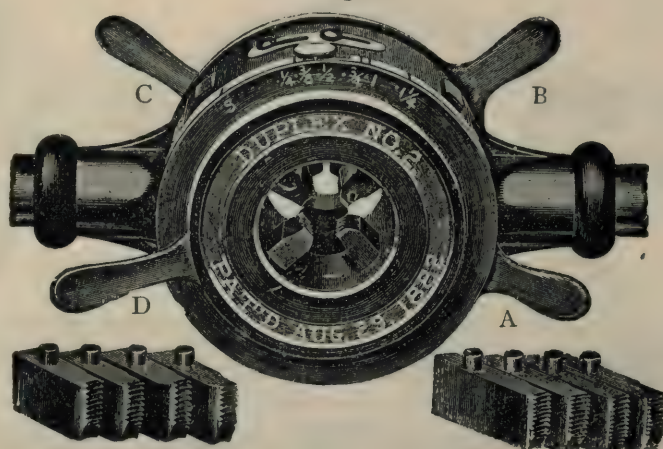
No. 6.—Fig. 695.



No. of Stock and Size of Pipe Screwed by each.	No. 1 Stock	No. 2 Stock	No. 3 Stock	No. 6 Stock
	Screwing $\frac{1}{8}$ to $\frac{1}{2}$ in.	Screwing $\frac{1}{4}$ to 1 in.	Screwing 1 to 2 in.	Screwing $2\frac{1}{2}$ to 3 in.
Stock, complete, with dies, etc., etc.....	9.00	12.00	24.00	40.00
Stock only.....	3.00	3.50	7.00	25.00
Bushings, or Guides.....	.20	.25	.50	1.00
Pipe Dies, Right or Left	1.25	1.50	4.00	15.00
Wrenches .....	.25	.25	.25	.50
Collar Screws .....	.12	.12	.15	.25
Adjusting Screws .....	.10	.10	.15	.20

Hart's Patent "Duplex" Die Stock.

Fig. 696.



Without Cut-off.

No. 1, Threading	$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, and $\frac{3}{4}$ Pipe	Price each	\$13.00
No. 2, "	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, and $1\frac{1}{4}$ Pipe	"	17.00
No. 3, "	1, $1\frac{1}{4}$, $1\frac{1}{2}$, and 2 in. Pipe	"	22.00
No. $3\frac{1}{2}$, "	$\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, and 2 in. Pipe	"	25.00
No. 4, "	$1\frac{1}{2}$, 2, $2\frac{1}{2}$, and 3 in. Pipe	"	40.00
No. 5, "	$2\frac{1}{2}$, 3, $3\frac{1}{2}$, and 4 in. Pipe	"	55.00

With Cut-off.

No. 1, Threading	$\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, and $\frac{3}{4}$ Pipe	Price each	\$16.00
No. 2, "	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, and $1\frac{1}{4}$ Pipe	"	20.00
No. 3, "	1, $1\frac{1}{4}$, $1\frac{1}{2}$, and 2 in. Pipe	"	25.00
No. $3\frac{1}{2}$, "	$\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, and 2 in. Pipe	"	28.00
No. 4, "	$1\frac{1}{2}$, 2, $2\frac{1}{2}$, and 3 in. Pipe	"	45.00
No. 5, "	$2\frac{1}{2}$, 3, $3\frac{1}{2}$, and 4 in. Pipe	"	60.00

EXPLANATIONS AND DIRECTIONS FOR USE.

To thread $1\frac{1}{4}$ in. pipe, place each die in the slot bearing the corresponding number, and turn cam plate A until the $1\frac{1}{4}$ in. mark is at the spring gauge E; fasten the dies in this position by screwing down lock plate D; slip the pipes through the guides, the end resting against the dies; close the guides on the pipes by turning cam plate B; fasten guides by turning lock plate C and proceed to cut the thread. To change the dies turn cam plate A until the letter S passes by the spring gauge E, the dies will then slip out. Always keep dies sharp; they will last longer and cut easier. As the dies wear or are re cut, the graduating gauge is very easily and quickly re-set; to do this, set the dies in on a standard nipple, tighten the lock plate, loosen the two screws that hold the gauge and move it into the desired notch on edge of cam.

In changing Dies be sure and get them in the right Slot.

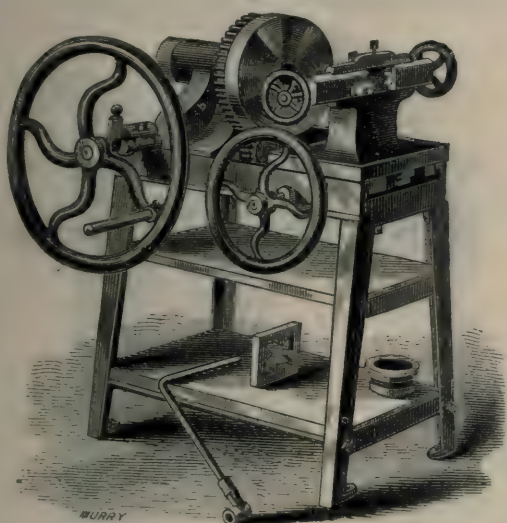
Steam and Gas Fitters' Tools.

Pipe Cutting and Screwing Machines for Steam and Gas Pipes.

No. 1, For Hand or Power,
D. Saunders & Sons' Make.

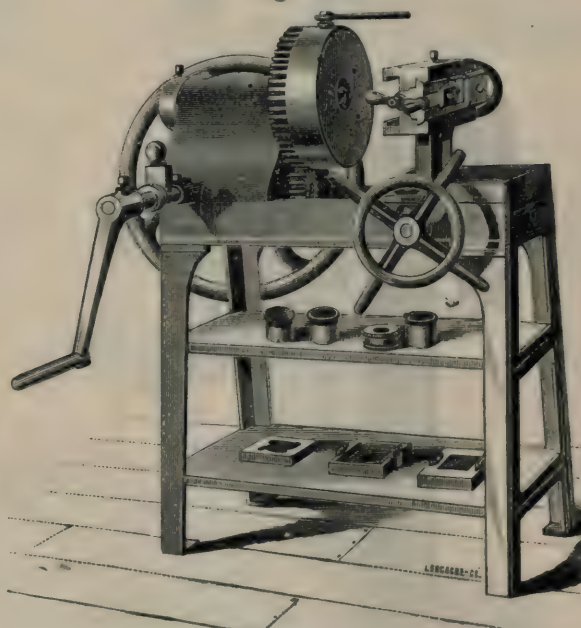
No. 2, For Hand or Power,
Cox & Sons' Make.

Fig. 697.



HAND MACHINE.

Fig. 698.



HAND MACHINE.

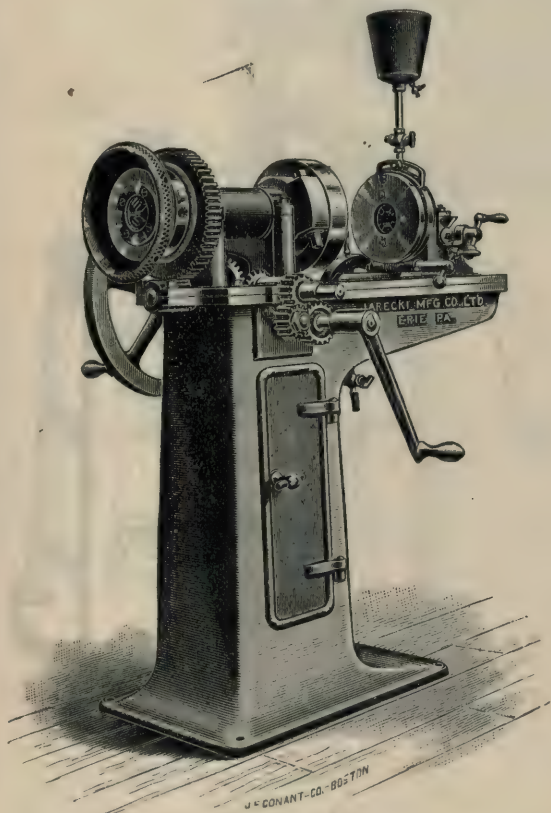
Description.	FIG. 697. PRICE.		FIG. 698. PRICE.	
	HAND	POWER.	HAND	POWER.
HAND MACHINE.				
Cutting and Screwing Pipe $\frac{1}{4}$ to 2 inches, with Universal Chuck, Fly Wheel and Solid Dies Right Hand, and Full Set of Bushings; also a Set of Sockets for making Nipples $\frac{1}{4}$ to 2 inch. Price complete	150.00	.....	135.00	.....
POWER AND HAND MACHINES.				
Cutting and Screwing Pipe $\frac{1}{4}$ to 2 inches, with Universal Chuck, Cone Pulleys, Counter Shaft and Solid Dies Right Hand, and full Set of Bushings; also a Set of Sockets for making nipples, and Crank for Hand use. Price complete	.....	175.00	.....	170.00

Steam and Gas Fitters' Tools.

The "Jarecki" Pipe Machine.

$\frac{1}{4}$ to 2 in. Quick-Opening Adjustable Dies.

No. 6. HAND MACHINE.
Fig. 699.



No. 7. POWER MACHINE.
Fig. 700.

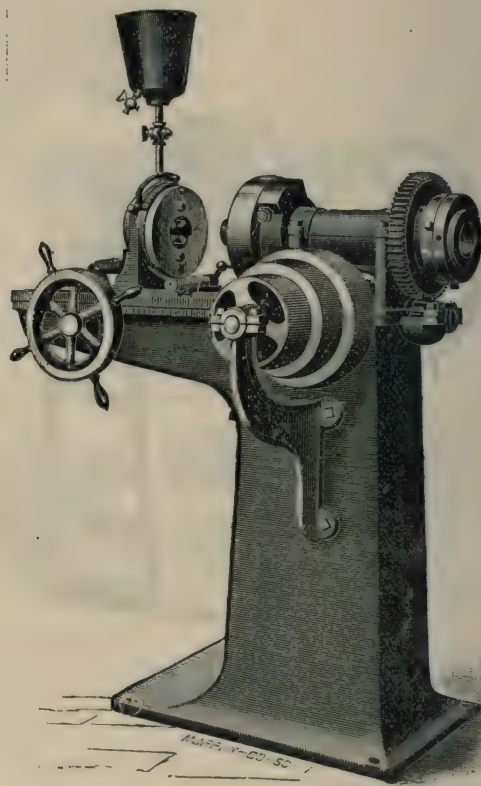


Fig. 699.	No. 6, Hand Machine, with Right Hand Dies, $\frac{1}{4}$ to 2 in.	145.00
" 700.	No. 7, Power Machine, with Counter Shaft and R. H. Dies $\frac{1}{4}$ to 2 in.	170.00
	Extra Dies, R. or L. Hand, $\frac{1}{4}$ to 2 in., per set	4.00

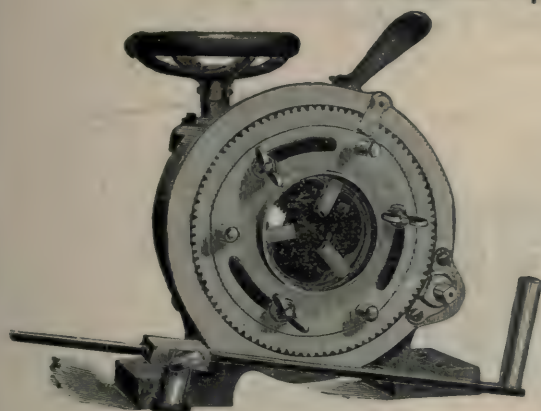
NOTE.—There are 4 Sets of Dies of 4 each to each Machine :

Viz.:—One Set Screws $\frac{1}{4}$ & $\frac{3}{8}$; 1 Set Screws $\frac{1}{2}$ & $\frac{3}{4}$; 1 Set Screws 1 & $1\frac{1}{4}$; and 1 Set Screws $1\frac{1}{2}$ & 2.

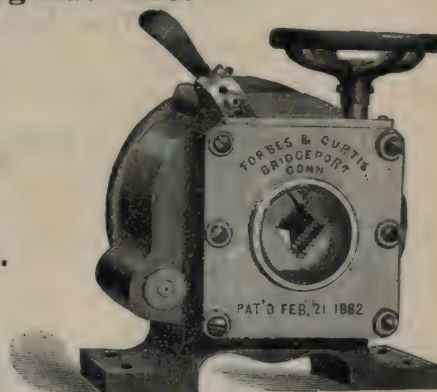
Use great care when putting the Dies into Die Head, to have Die Number correspond with Slot Number.

DIRECTIONS FOR INSERTING DIES INTO DIE HEAD.

Remove Die Head cover, place Nos. 1 and 2 Dies in corresponding Slot Numbers. These being at the bottom will therefore remain in position. Then place No 3. Die in No. 3 Slot and turn Cam Screw Handle, which will move Cam so that the Lip will cover upper end of No. 3 Die. Then place No. 4 Die in position, going through same operation as with No. 3 Die., so that the Lip will cover upper end of No. 4 Die, after which replace cover. The Lips are for simply the purpose of holding Nos. 3 and 4 Dies in place until the cover is replaced.

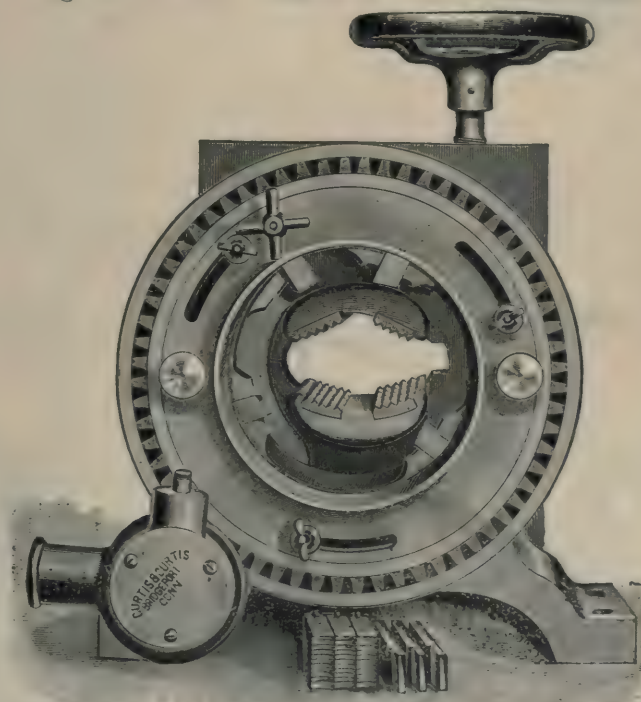
STEAM AND GAS FITTERS' TOOLS.**Curtis & Curtis Pipe Screwing Machines.**

Front View.

Fig. 701.
No. 1.**Hand
Machine.**

Back View.

NUMBER.	CUTS & SCREWS	WEIGHT	PRICE.
1	$\frac{1}{4}$ to 2 in., both Right and Left	80 lbs.	80.00
$1\frac{1}{2}$	1 to 3 in., R. H., 1 to 2 in. L. H.	115 "	125.00
$1\frac{1}{2}$ A	$\frac{3}{4}$ to 3 in., R. H., $\frac{3}{4}$ to 2 in. L. H.	120 "	143.50

Fig. 702. No. 2. **Hand or Power Machine.**

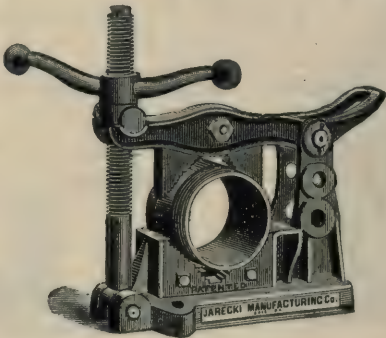
NUMBER.	CUTS AND SCREWS.	WEIGHT.	PRICE, HAND	PRICE, POWER
2	$2\frac{1}{2}$ to 4 in. R. H.	175 lbs.	144.00	236.00
$2\frac{1}{2}$	$1\frac{1}{2}$ to 4 in. R. H.	175 "	170.00	253.00
$2\frac{1}{2}$ A	$1\frac{1}{2}$ to 4 in. R. & L. "	180 "	195.00	279.00
$2\frac{1}{2}$ B	1 to 4 in. R. H.	180 "	186.00	270.00
$2\frac{1}{2}$ C	1 to 4 in. R. & L.	185 "	220.00	305.00
3	4 to 6 in. R. H.	310 "	195.00	287.00

NOTE. Countershafts included in the Price of Power Machines.

Steam and Gas Fitters' Tools.

The "Jarecki" Patent Pipe Vise.

Fig. 703.



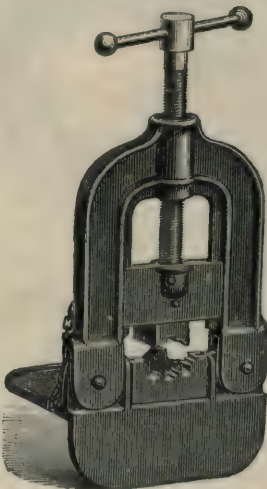
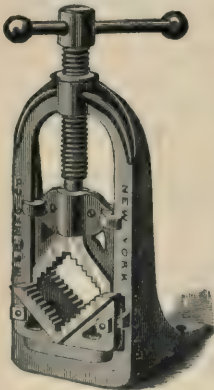
Number		1 A	2 A	3 A	4 A
Takes Size of Pipe, Inches		$\frac{1}{8}$ to 2 in.	$\frac{1}{8}$ to 4 in.	$1\frac{1}{2}$ to 6 in.	6 to 12 in.
Vise, Complete	Price, each	12.00	16.00	24.00	60.00
Parts of Vise.	Beam	1.75	2.10	3.50	.....
	Handle	1.40	1.40	2.10	.....
	Trunnion Washer .....	.70	.70	1.05	.....
	Jaws	1.40	2.10	2.80	.....
	Screw	3.15	3.50	6.00	.....
	Frame	5.60	8.40	12.60	.....

Malleable Hinged Pipe Vise.

Fig. 705.

7 lb. Steel Vise.

Fig. 704.



Closed.



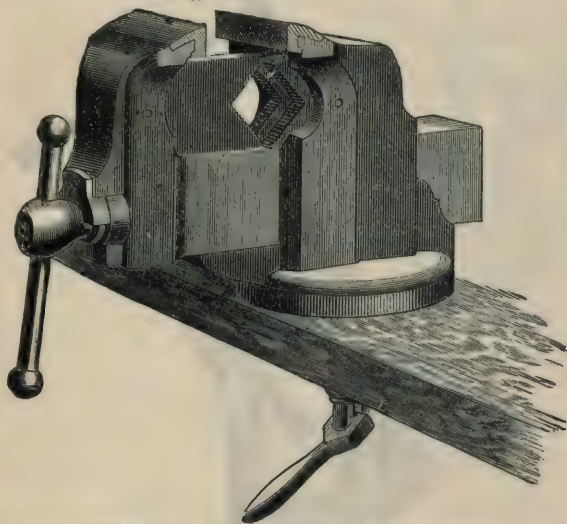
Open.

Number		1	2
Takes Size of Pipe, Inches		$\frac{1}{8}$ to 2 in.	$\frac{1}{8}$ to 3 in.
Fig. 704. 7 lb. Steel Vise	Price, each	4.50	.....
" 705. Hinged Pipe Vise	"	10.00	14.00

Steam and Gas Fitters' Tools.
Parallel Combination Pipe Vises.

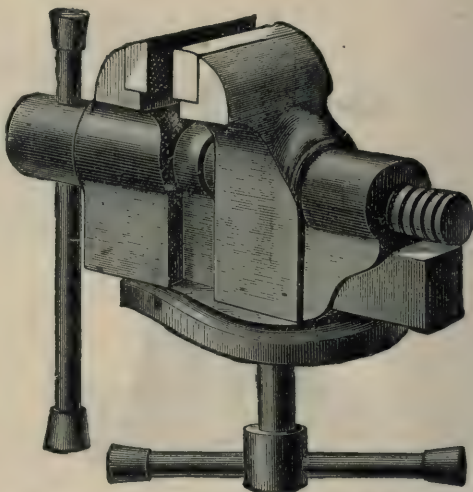
Parker's Parallel
Combination Pipe Vise.

Fig. 709.



Walworth's
Parallel Pipe Vise.

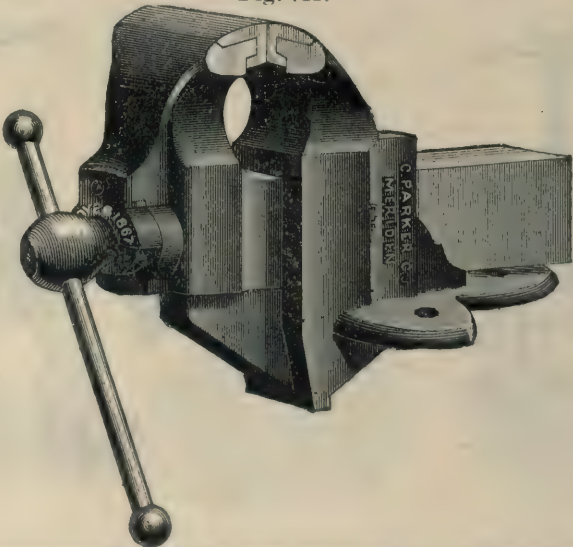
Fig. 710.



Number	-	-	-	-	-	87	88	288½	289½
Takes Pipe, from	-	-	-	-	-	⅛ to 2 in.	⅛ to 3 in.	⅛ to 4 in.	2 to 6 in.
Length of Jaw, Inches	-	-	-	-	-	3⅝	4⅛	4¾	5⅝
Weight in Pounds	-	-	-	-	-	41	59	105	155
Fig. 709. Parker's Combination Vise, price each	-	-	-	-	-	16.00	20.00	28.00	35.00
Fig. 710. Walworth's Parallel Pipe Vise, " "	-	-	-	-	-	.....	.....	.....	18.00

Parker's Patent Parallel Bench Vises.

Fig. 711.



Number	-	-	-	-	-	-	1	2	3
Length of Jaw, Inches	-	-	-	-	-	-	3⅝	4⅛	4¾
Weight, in Pounds	-	-	-	-	-	-	31½	41½	59½
With Parker's Improvements	-	-	-	-	-	price each	7.00	9.00	11.75
Without " " " "	-	-	-	-	-	"	6.50	8.50	10.75

Steam and Gas Fitters' Tools.

Stanwood Wheel Pipe Cutter.

Fig. 712.

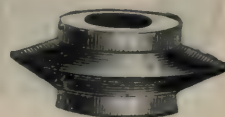


Stanwood's Block and Wheel.

Fig. 713.



Fig. 714.



Stanwood Cutter Wheel.

Number			1 Cuts $\frac{1}{4}$ to $\frac{3}{4}$	2 Cuts 1 to 2	3 Cuts 2 to 3
Pipe Cutter, Case Hardened,	-	price each	3.00	4.50	14.00
" Blocks and Wheels,	-	"	.90	1.00	4.00
" Wheels,	-	"	.24	.32	.60

Saunders & Sons' Wheel Pipe Cutter.

Fig. 715.

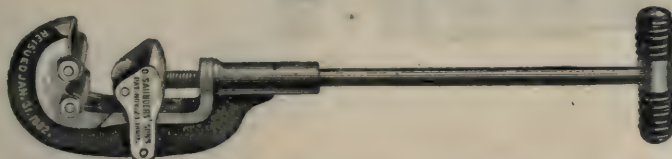


Fig. 716.



Saunders' Cutter Wheel.

Number			1 Cuts $\frac{1}{8}$ to 1 in.	2 Cuts 1 to 2 in.	3 Cuts 2 to 3 in.
Pipe Cutter,	-	price each	3.00	4.50	14.00
Extra Block and Wheel	-	"	1.50	2.00	4.00
Extra Cutter Wheel	-	"	.24	.32	.60

The "Trimo" Wheel Pipe Cutter.

Fig. 717.

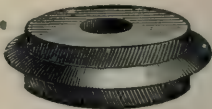


Number			1	2	3
Cuts Pipe	-		$\frac{1}{8}$ to 1	$\frac{1}{2}$ to 2	$1\frac{1}{4}$ to 3
Each	-		5.25	6.75	12.25
Extra Wheels	-		.25	.25	.55
Extra Rolls	-		.25	.25	.55
Extra Wheel Screws, per doz	-		1.00	1.00	1.00
Extra Washers	-		.60	.60	.60

Steam and Gas Fitters' Tools.

The Model 3 Wheeled Pipe Cutter.

Fig 718.



Model Cutter Wheel.

Number		1 Cuts $\frac{1}{8}$ to 1 in.	2 Cuts 1 to 2 in.	3 Cuts 2 to 3 in.
Pipe Cutters,	Price each	4.50	6.00	10.00
Extra Cutter Wheels,	"	26	33	40
Extra Screws, or Pins,	"	10	10	10

The Armstrong Wheel Pipe Cutter.

Fig. 719.



Number		1	2
Cuts, Size of Pipe		$\frac{1}{8}$ to 1 in.	1 to 2 in.
Pipe Cutters	Price each	3.50	4.70
Extra Wheels	"	27	33

Pipe Tongs, Common.

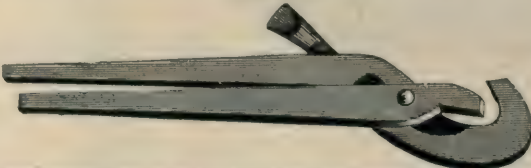
Fig. 720.



Size, for Iron Pipe	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Price each	60	70	85	1.05	1.25	1.50	1.80	2.30	3.50	4.00

Brown's Patent Adjustable Pipe Tongs.

Fig. 721.



Number	1 Takes $\frac{1}{8}$ to $\frac{3}{4}$ in.	$1\frac{1}{2}$ Takes $\frac{1}{4}$ to 1 in.	2 Takes $\frac{1}{2}$ to $1\frac{1}{4}$ in.	3 Takes 1 to 2 in.	4 Takes $\frac{1}{2}$ to 3 in.
Price each	1.13	1.20	1.65	2.15	4.50

Steam and Gas Fitters' Tools.

Hilts' Adjustable Chain Pipe Wrench.

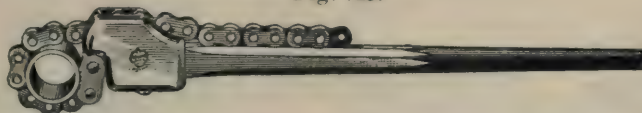
Fig. 722.



Number	1	2	3	4	5	6	7	
Size of Pipe,	$\frac{1}{2}$ to $1\frac{1}{2}$	1 to $2\frac{1}{2}$	$1\frac{1}{4}$ to 4	$1\frac{1}{2}$ to 6	2 to 8	$2\frac{1}{2}$ to 10	4 to 16	
Length of Lever, Inches	18	26	36	46	58	70	80	
Weight in Pounds	5	9	15	25	36	50	85	
Wrenches price each	3.50	5.50	7.50	9.50	11.00	18.00	30.00	
Extra Parts {	Chains, "	.40	.65	.80	.95	1.25	2.00	3.00
	Bodies, "	2.00	2.50	3.75	4.50	5.00	6.00	7.00
	Jaws, "	1.25	2.00	3.00	3.50	4.50	5.00	5.50
	Teeth, "	.50	.50	.60	.75	.75	1.00	1.00

Trimo Chain Pipe Wrench.

Fig. 723.



Number	1	2	3	4	5
Price	3.50	5.50	7.50	11.00	18.00
Length in Inches	20	27	37	50	64
Size of Pipe	1 to $2\frac{1}{2}$	1 to $3\frac{1}{2}$	$1\frac{1}{4}$ to 6	$1\frac{1}{2}$ to 8	2 to 14
Extra Chains	1.00	1.50	2.50	4.00	6.00
Extra Jaws	.80	1.25	2.00	2.50	3.00

Robbin's Patent Chain Tongs.

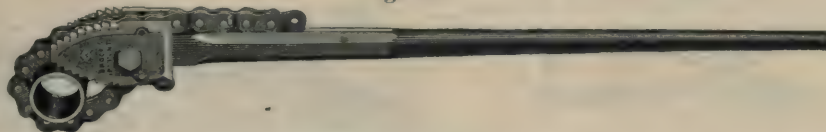
Fig. 724.



Number	2	3	4	5	6	7
Size of Pipe, Gripped	1 to 2 in.	$1\frac{1}{4}$ to 4 in.	2 to 6 in.	$2\frac{1}{2}$ to 8 in.	4 to 10 in.	4 to 16 in.
Length of Lever	27 in.	36 in.	48 in.	60 in.	72 in.	84 in.
Price each	8.50	9.70	14.00	19.50	25.00	47.00

Brock's Patent Chain Tongs.

Fig. 725.



Number	2	3	4	5	6
Size of Pipe	1 to 2 in.	$1\frac{1}{4}$ to 4 in.	2 to 6 in.	$2\frac{1}{2}$ to 8 in.	4 to 10 in.
Length of Lever	27 in.	36 in.	48 in.	60 in.	72 in.
Price each	8.50	11.70	17.00	19.50	28.00

Steam and Gas Fitters' Tools.

Pipe Wrenches.

The "Stillson's" Patent Pipe Wrench.

Fig. 726.



Length Open, inches	6	8	10	14	18	24	36	48
Takes Iron Pipe from	$\frac{1}{8}$ Wire to $\frac{1}{2}$ Pipe	$\frac{1}{8}$ Wire to $\frac{3}{4}$ Pipe	$\frac{1}{8}$ Wire to 1 in. Pipe	$\frac{1}{4}$ Wire to $1\frac{1}{2}$ Pipe	$\frac{1}{4}$ Wire to 2 in. Pipe	$\frac{1}{4}$ Pipe to $2\frac{1}{2}$ Pipe	$\frac{1}{2}$ Pipe to $3\frac{1}{2}$ Pipe	1 in. Pipe to 5 in. Pipe
Wrenches price each	2.00	2.00	2.25	3.00	4.00	6.00	12.00	18.00
Extra Jaws . . . . .	.67	.67	.75	1.00	1.33	2.00	4.00	6.00
Extra Frames . . . . .	.25	.25	.33	.45	.55	.65	.75	1.00
Extra Nuts . . . . .	.20	.20	.27	.35	.42	.50	.65	.80

The "Trimo" Pipe Wrench.

Fig. 727.



Length Open, Inches	6	8	10	14	18	24	36	48
Takes from	$\frac{1}{8}$ in. Wire to $\frac{1}{2}$ in. Pipe	$\frac{1}{8}$ in. Wire to $\frac{3}{4}$ in. Pipe	$\frac{1}{8}$ in. Wire to 1 in. Pipe	$\frac{1}{4}$ in. Wire to $1\frac{1}{2}$ in. Pipe	$\frac{1}{4}$ in. Wire to 2 in. Pipe	$\frac{1}{4}$ in. Wire to $2\frac{1}{2}$ in. Pipe	$\frac{1}{2}$ in. Pipe to $3\frac{1}{2}$ in. Pipe	1 in. Pipe to 5 inch
Price	2.00	2.00	2.25	3.00	4.00	6.00	12.00	18.00
Jaw . . . . .	.67	.67	.75	1.00	1.33	2.00	4.00	6.00
Nut . . . . .	.20	.20	.27	.35	.42	.50	.65	.80
Inserted Jaw . . . . .	.25	.25	.33	.50	.55	.65	1.00	1.25
Frame . . . . .	.25	.25	.33	.45	.55	.65	.75	1.00

In ordering Parts, state Size of Wrench, and whether for Trimo or Trimo A. The name is stamped on Handle.

Alligator Wrenches.

Fig. 728.



Fig. 729.

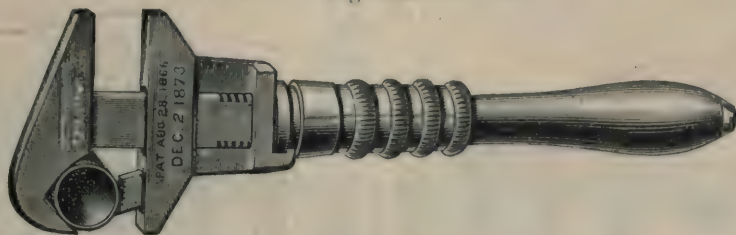


Number	1	2	3	4	5
Takes Iron Pipe from	$\frac{1}{8}$ to $\frac{3}{8}$ in.	$\frac{3}{8}$ to $\frac{1}{2}$ in.	$\frac{1}{2}$ to 1 in.	$1\frac{1}{4}$ to 2 in.	2 to 3 in.
Price each	.80	1.60	3.60	5.70	8.00

Steam and Gas Fitters' Tools.

Bemis & Call's Combination Wrench.

Fig. 730.



Length, Open, Inches	10	12	15
Takes Iron Pipe from	$\frac{1}{2}$ to 1 in.	$\frac{1}{2}$ to $1\frac{1}{4}$ in.	$\frac{1}{2}$ to 2 in.
Price each	3.25	3.60	5.50
Extra Dogs and Screws.	Price, each .30	.40	.45

Monkey Wrenches.

Fig. 731.



Coe's Patent Wrench.

Fig. 732.



Agricultural Wrench.

Length, Inches	6	8	10	12	15	18	21
Fig. 731. Coe's Wrenches. Price each	.75	.84	1.00	1.17	2.00	2.50	3.00
" 732. Agricultural Wrenches. " "	..	..	.60	.70	1.20	....	....

Pease's Patent Combination Gas and Burner Pliers.

Fig. 733.—6 Inch.

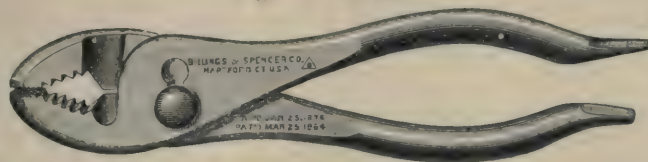


Fig. 734.—10 Inch.

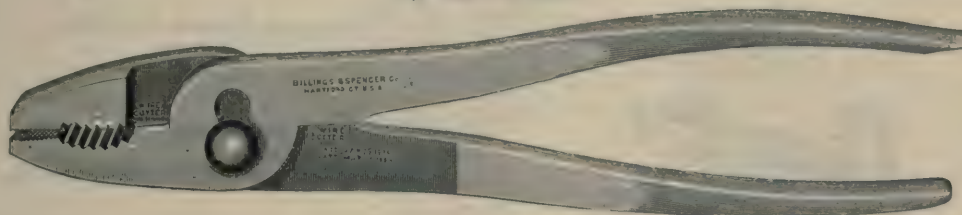
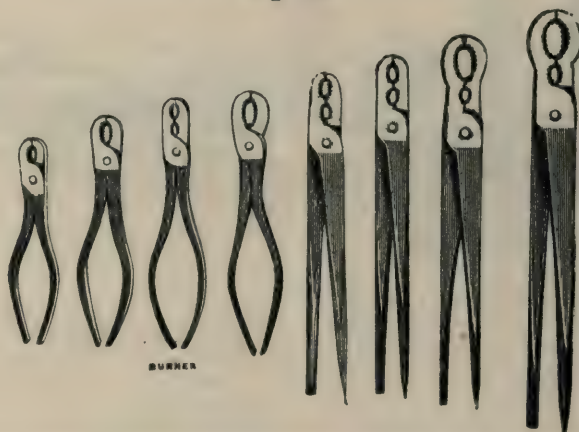


Fig. 733. 6 In., Nickel-Plated.....	Price, each	\$1.88
" 734. 10 in., Black.....	" "	2.65

Steam and Gas Fitters' Tools.

Gas and Burner Pliers.

Fig. 735.



Length, Inches.....	4	5	6	7	8	9	10
Burner Pliers, Polished,.....price each		70	80	90			
Gas Pliers, " " " " " "	50		70	80	90	1.20	1.50
" " Black..... " "						1.20	1.50

Gas Pipe Taps, Reamers and Drills.

Fig. 736.



Pipe Tap.

Fig. 737.



Pipe Reamer.

Fig 738.



Pipe Drill.

Size, Iron Pipe.....	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 736, Pipe Tap, price each	1.12	1.25	1.50	1.87	2.50	3.12	3.75	4.62	6.25	10.50	15.00
" 737, " Reamers " "	1.12	1.25	1.50	1.87	2.50	3.12	3.75	4.62	6.25	10.50	15.00
" 738, " Drills " "	.91	.91	.95	.98	1.04	1.14	1.23	1.35	1.56	.....	.....

Steam Gauge Hand Lifter.

Fig. 739.



Gauge Glass Cutter.

Fig. 740.

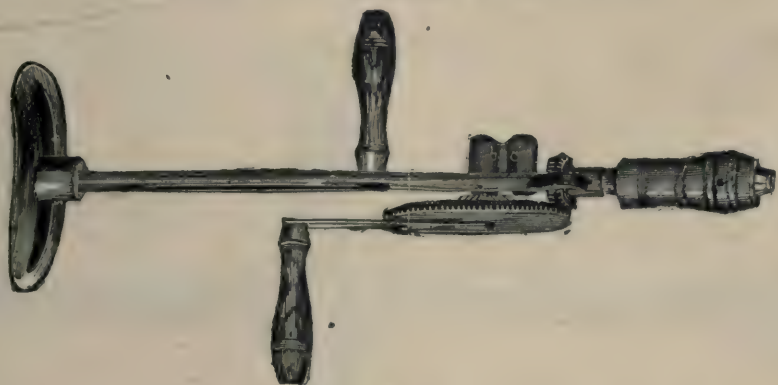


Fig. 739, Steam Gauge, Hand Lifter	price each	3.75
" 740, Gauge Glass Cutter	"	5.00

Steam and Gas Fitters' Tools.

Breast Drill, Changeable Gear.

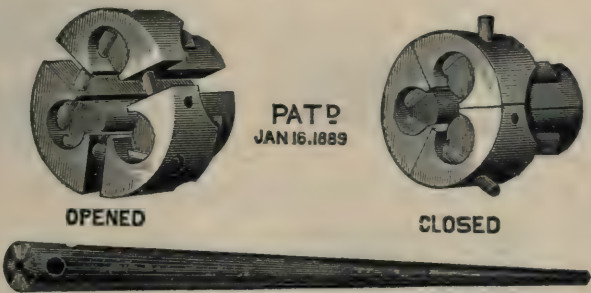
Fig. 741.



This Drill has a Malleable Iron Stock, Japanned Rosewood Handles, Polished and Plated Chuck, Changeable Gears (one even and the other 3 to 1). It has a Barber Improved Chuck, with recent improvement, which makes it hold perfectly Tools of all shapes and sizes.
Price, each \$6.25

Jardine's Patent Extension and Self-Feeding Tube Expander.

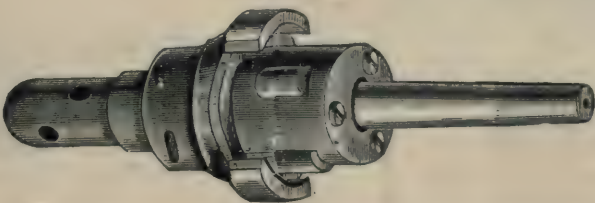
Fig. 742.



Number	1	1½	2	2½	3 A	3 •
Expands Tubes, Inches	1¼ to 1¾	1¾ to 2¼	2 to 3	2½ to 3½	3¼ to 4	3¼ to 5
Price each	15.50	18.00	22.00	25.00	25.00	33.00

"Dudgeon's" Pattern, Tube Expanders.

Fig. 743.



Size, Inches	1¼	1½	1¾	2	2¼	2½	2¾	3	3¼	3½	3¾	4	4½	5
Price each	5.00	5.25	5.25	5.60	5.60	6.30	7.00	7.80	8.75	10.00	12.00	12.00	14.00	17.00

Steam and Gas Fitters' Tools.

Non-Pareil Ratchet Wrenches.

Fig. 744. Combination. No. 1.

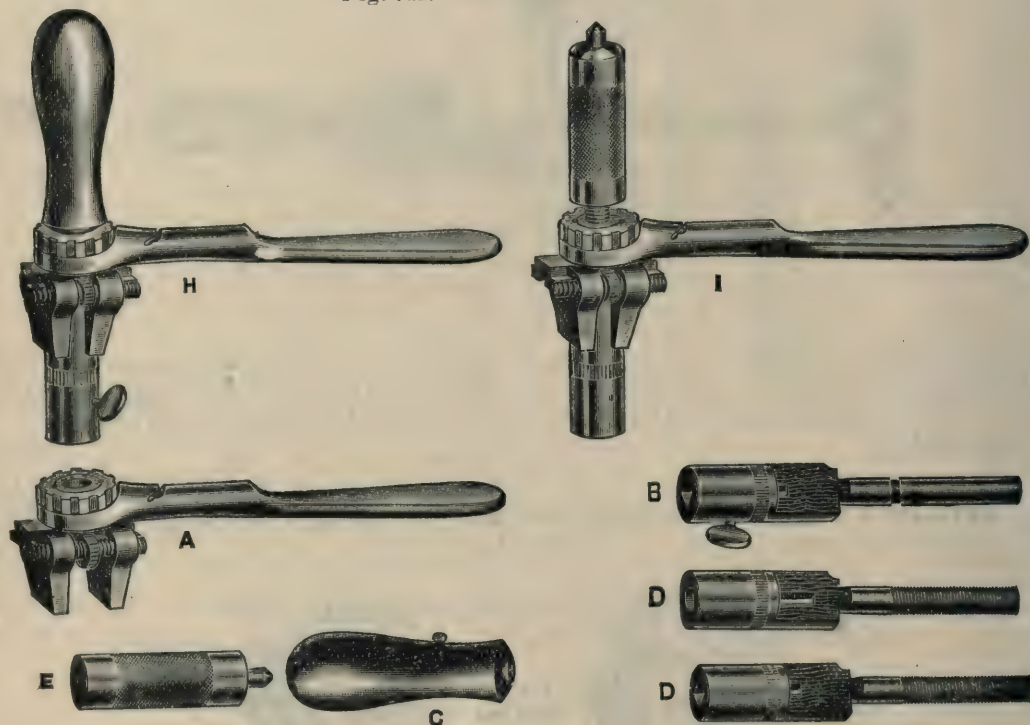


Fig. 745. Round Jaw Wrench. No. 2.

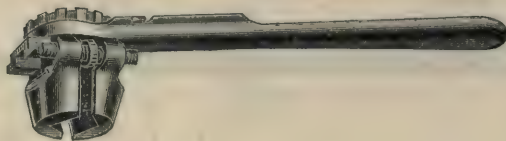
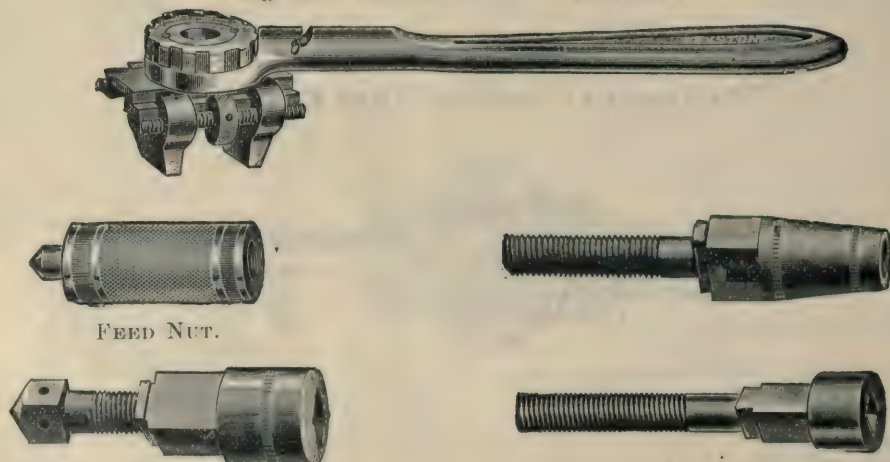


Fig. 746. Combinations. Nos. 4 and 5.



Steam and Gas Fitters' Tools.

Prices for Non-Pareil Ratchet Wrenches, Nickle Plated.

Fig. 744.	No. 1.	Combination Complete. Wrench, Bit Holder, Wood Handle, Drill Socket and Feed Nut	7.50
Fig. 745.	No. 2.	Combination Complete. Wrench (Round Jaw), Bit Holder, Wood Handle, Drill Socket and Feed Nut	7.50
	No. 3.	Combination Complete. Wrench and Socket, Feed Screw, Bit Holder, Wood Handle	7.50
Fig. 746.	No. 4.	Combination Complete. Wrench with Square and Morse Taper Socket, Feed Nut, Square Drill Socket with Screw Feed	18.00
	No. 5.	Combination Complete. Wrench (with Square or Round Jaws), Square and Morse Taper Socket and Feed Nut, and Square Drill Socket with Screw Feed	22.50

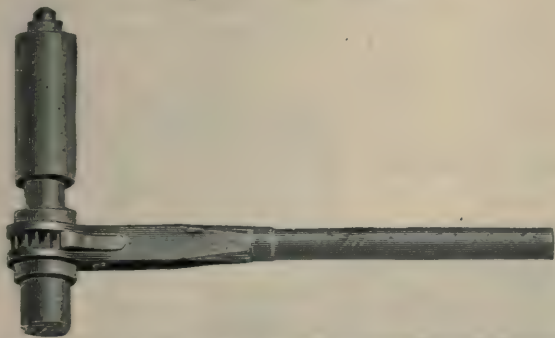
Prices of Parts Separately.

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Ratchet Drills.

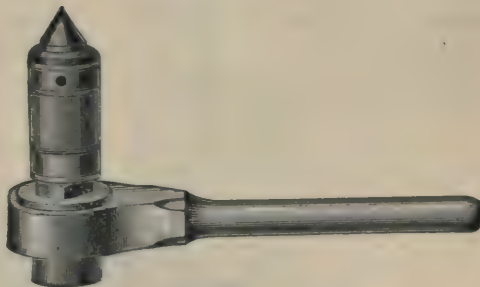
SLEEVE RATCHET.

Fig. 747.



BOILER RATCHET.

Fig. 748.



Number of Ratchets	1	2	3	4
Length of Handle, Inches	10	14	16	18
Fig. 747. Sleeve Ratchet with Socket price each	5.00	5.75	6.50	7.25
" 748. Boiler " " " " " " " " " " " "	5.00	5.75	6.50	7.25

Steam and Gas Fitters' Tools.

The "Gem" Steam Tube Cleaner.

Fig. 749.



Number	1	2
Takes, Size of Tube, Inches.....	2 to 3	2½ to 4
For ½ or ¾ in. Steam Hose	price each	5.25 6.75

The "X. L." Steam Tube Cleaner with Spring Valve.

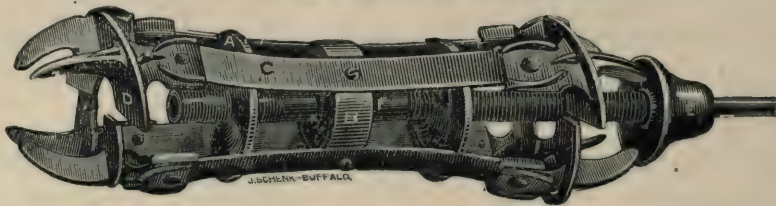
Fig. 750.



Number	3	4
Takes, Size of Tube, Inches.....	2 to 3	2 to 4
For ½ or ¾ in. Steam Hose.....	price each	12.00 15.00

Tube Scrapers.

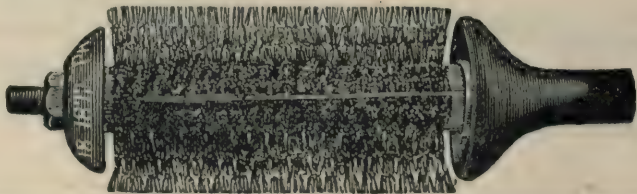
Fig. 751. The Engineer's Favorite.



Takes, Size of Tube, Inches.....	1½	2	2½	3	3½	4
Price each.....	1.50	2.00	2.50	3.00	3.50	4.00

Steel Tube Brushes.

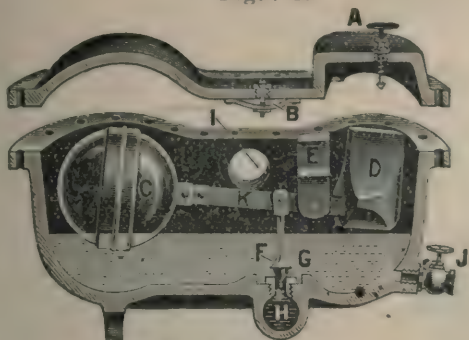
Fig. 752.



Takes, Size of Tubes, Inches.....	1¼	1½	2	2½	3	4
Price each.....	1.25	1.50	2.00	2.50	3.00	4.00

McDANIEL'S STEAM TRAPS, ETC.**Steam Trap.**

Fig. 753.



No. 1, 2, 3, 4.

Pressure Regulator.

Fig. 755.

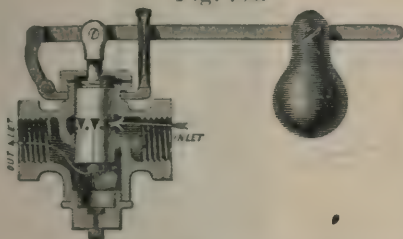
**Suction Tees**

Fig. 755½.

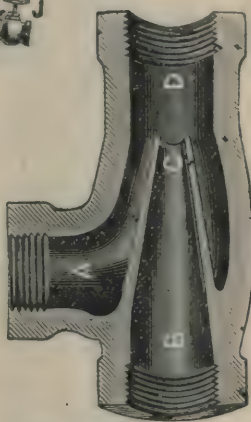
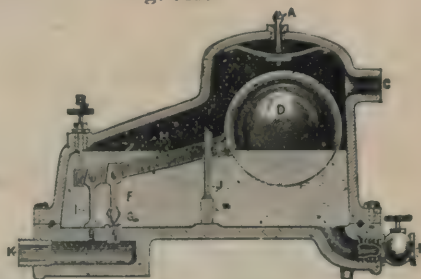
**Steam Traps.****Steam Trap.**

Fig. 754.



No. 0.

Syphon or Water Lifter.

Fig. 756.



Number and Capacity	No. 0.	No. 1.	No. 2.	No. 3.	No. 4.
		1 in. drains 3500 ft. 1 in. pipe	1½ in. drains 7000 ft. 1 in. pipe	1½ in. drains 14000 ft. 1 in. pipe	2 in. drains 29,000 ft. 1 in. pipe
Fig. 753. Special Steam Trap, price each	.....	30.00	40.00	65.00	75.00
" 754. { For Small Buildings, where few Coils or { Radiators to be Drained, price each	18.00	.....	.....	.....	.....

Pressure Regulators, Suction Tees and Water Lifters.

Size, Inches	¾	1	1½	1½	2	2½	3	4	6
Fig. 755. Pressure Regulator, . . each	17.00	20.50	26.50	33.75	46.00	66.00	84.00	108.00	168.00
" 755½. Suction Tees, . . . . .	.....	1.00	1.25	1.50	2.00	2.50	.....	.....	.....
" 756. Syphon or Water Lifter, " . . . . .	.....	6.00	8.00	10.00	12.00	20.00	.....	.....	.....

Oily Waste Can.

Fig. 757.

**Oil Filter.**

Fig. 758.

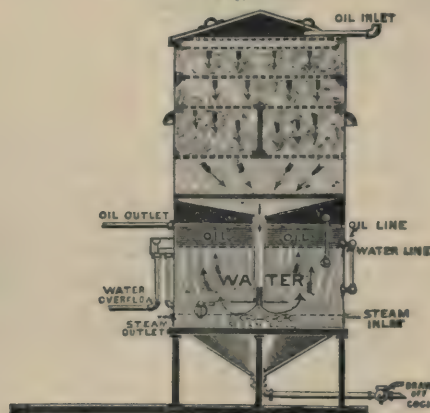


Fig. 757. Oily Waste Can,	price each	2.25
" 758. Oil Filter, height 6 ft., width 2 ft. 4 in.,	" "	140.00

Thermometers.

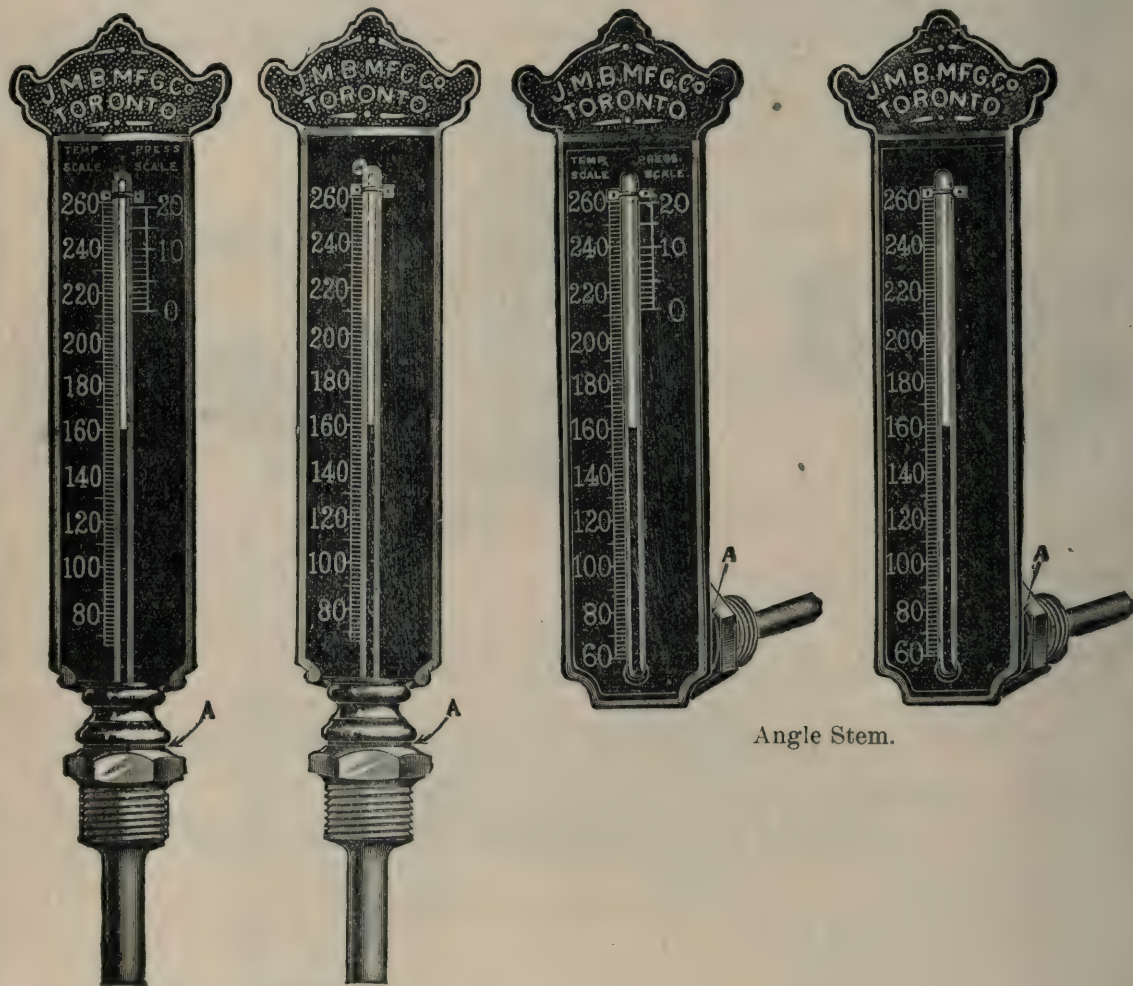
For Use in Hot Water and Steam Heating.

Fig. 759.

Fig. 760.

Fig. 761.

Fig. 762.



Angle Stem.

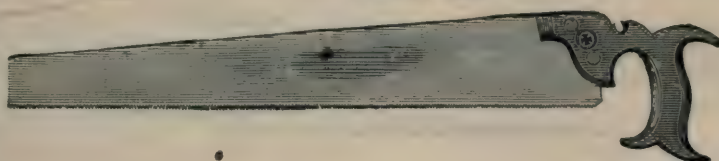
Straight Stem.

The frames are of Iron, Japan and Nickel Finished, and made separable at "A." The lower part or bulb chamber forms a Mercury Bath in which the thermometer bulb rests and remains attached to heater, in case it is necessary to remove the thermometer for repairs.

Fig. 759.	Straight Stem, Hot Water Thermometer, length 11½ in.	price each 4.50
" 760.	" " Steam Heating Thermometer, same size as Fig. 759, graduated to show 20 lbs. steam pressure	" " 5.00
" 761.	Angle Stem, Hot Water Thermometer, length of face 8 in., length of thread and bulb chamber 2 in.	" " 5.50
" 762.	Angle Stem Steam Heating Thermometer, same as Fig. 761, graduated to show 20 lbs. steam pressure	" " 6.00

Plumbers' Tools.

Fig. 763. Panel Saw.



Price Each 12 in., 70 cents; 14 in., 85 cents

Fig. 764. Double Edge Saw.



Price each 12 in., 85 cents; 14 in., 95 cents

Fig. 765. Compass Saws.



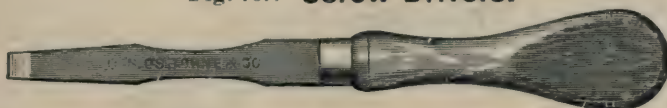
Price each 10 in., 40 cents; 12 in., 45 cents; 14 in., 50 cents

Fig. 766. Plumbers' Snips.



Number	8	9	10	CIRCULAR.
Price each	3.00	2.25	2.10	5.00

Fig. 767. Screw Drivers.

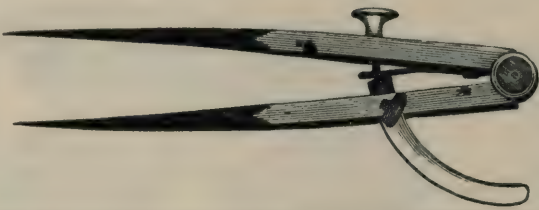


Length of Blade, Inches	10	12	14
Price each	22	25	25

Plumbers' Tools.

Wing Compasses or Dividers

Fig. 768.



Length of Leg. Inches.....	6	7
Price, each.....	50	55

Buzzell's Basin Wrench

Fig. 769.



Price each....\$1.85

Hammers

Fig. 770.



Small.....Price each \$0.75
Large " .90

12-inch Rasp

Fig. 771.



Price each....\$1.00

12-inch File

Fig. 772.



Price each....75c.

Copper Bolt, Pointed

Fig. 773.



Price per lb....60c.

Copper Bolt, Hatchet

Fig. 774.



Price per lb....60c.

Plumbers' Ladles

Fig. 775.



Size, Inches	2½	3	3½	4	5	6
Price, each	25	30	35	40	55	70

Plumbers' Tools.

Washer Cutter.

Fig. 776.



Price each, \$1.26

Shave Hook.

Fig. 777.



Price each, \$0.45

Tap Borer.

Fig. 778.



Price each, \$0.63

Dresser, Boxwood.

Fig. 779.



Price each, \$1.26

Chipping Knife.

Fig. 780.



Price each, \$0.90

Round Iron.

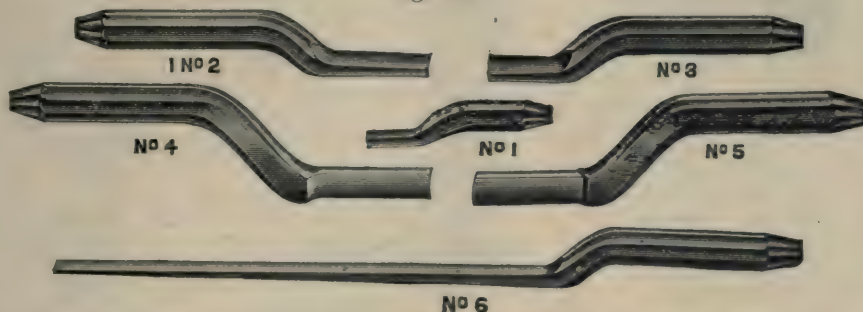
Fig. 781.



Price per lb., \$0.30

Caulking Chisels.

Fig. 782.



No 6

Number and Description	No. 1. Short Caulking Chisel	No. 2. Long Caulking Chisel	No. 3. Finishing Caulking Chisel	No. 4. Left Hand Caulking Chisel	No. 5. Right Hand Caulking Chisel	No. 6. Yarning Chisel
Price each	45	50	50	50	50	1.00
Price, per Sett, of Nos. 1 to 6.....						3.35

Plumbers' Tools.

Turn Pins.
Fig. 783.



Drift Plugs.
Fig. 784.



Fig. 783.—Turn Pins.

Number	1	2	3
Boxwood.....Price, each	24	27	30

Fig. 784.—Drift Plugs.

Size, Inches	1	1 1/4	1 1/2	2
Boxwood.....Price, each	15	18	21	24

Soil Cups.
Fig. 785.



Grease, Resin and Flour
Boxes—Spun Brass.
Fig. 786.



Fig. 785.	Polished Soil Cups with Handle.....	Price, each	.50
" 786.	{ Grease, Rosin and } Small.....	"	1.25
	{ Flour Boxes, } Medium	"	1.50
	{ Spun Brass.. } Large	"	1.75

Bending Pins.
Fig. 787.



Number.....	No. 1. Bent Two Ends.	No. 2. Bent One End.
Price, each.....	30	30

Plumbers' Tools.

12-in. Monkey Wrench.

Fig. 788.



Price each....\$1.17

Cutting Pliers.

Fig. 789.



Price each....\$1.00

10-in. Gas Pliers, Black.

Fig. 790.



Price each....\$1.50

Taper Blow Pipe.

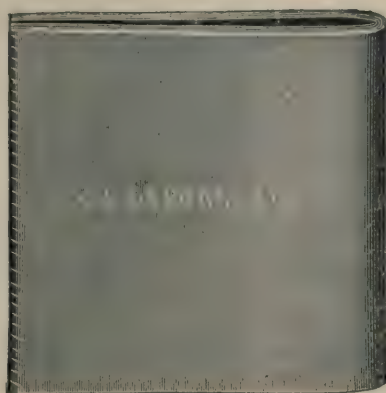
Fig. 791.



Price each....\$1.50

Moleskin Wiping Cloths.

Fig. 792.



Price each....\$0.38

Tool Bags.

Fig. 793.



No. 5. All Carpet	Each	\$3.75
" 6. Leather Bottom...	"	5.00
" 7. Leather Bottom and Sides	"	5.50

Tack Moulds

Fig. 794.

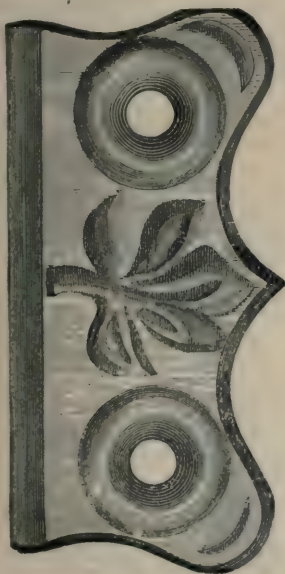


Fig. 795.



Fig. 796.



Fig. 794. Single.

Fig. 795. Single.

Fig. 796. Double.

Price, each.....

4.50

4.50

5.25

Plumbers' Tools.

Gas-Fitters' Test Pump and Gauge.

Fig. 798.

Plumbers' Force Pump.

Fig. 797.

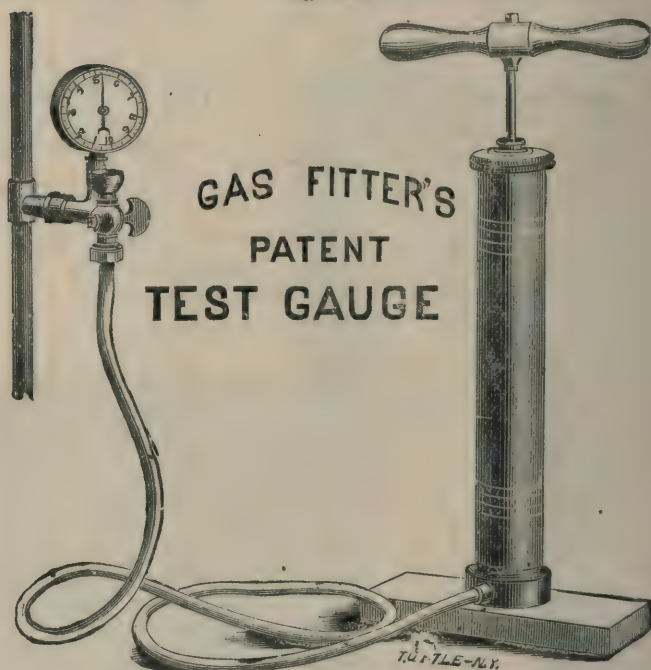
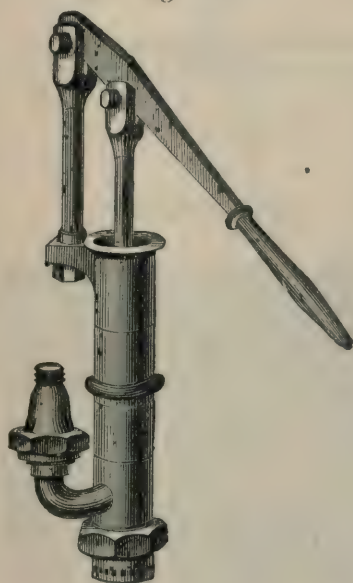


Fig. 797. Plumbers' Force Pump

" 798. Gas-Fitters' Test Pump and Gauge

Price each 12.00

" 20.00

Street Main Proving Pump.

Fig. 799.



Service Cleaner.

Fig. 800.



Fig. 799. Street Main Proving Pump

" 800. Service Cleaner

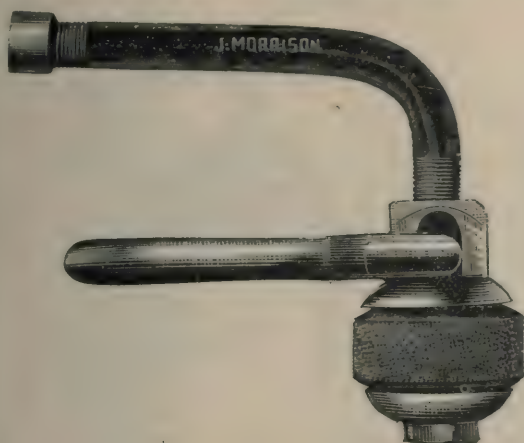
Price each 40.00

" 20.00

Plumbers' Tools.

New Patent Rubber Plugs. For Testing Soil Pipe.

WITH $\frac{1}{2}$ IN. PIPE BOLT. Fig. 801.



WITH SOLID BOLT. Fig. 802.

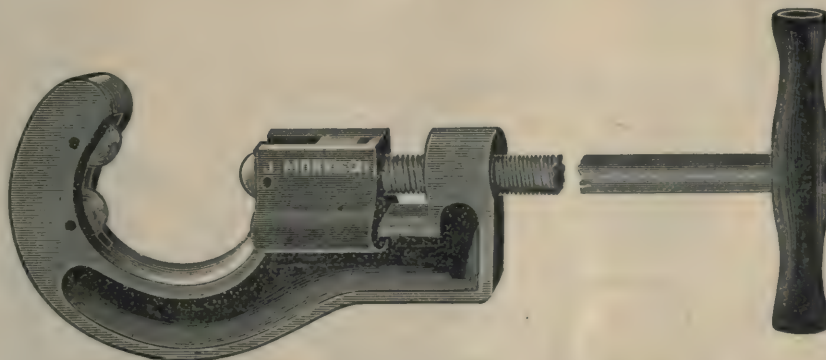


Size of Pipe, Inches		2	3	4	5	6
Fig. 801, with $\frac{1}{2}$ in. Pipe Handle	Price each	1.50	2.63	3.75	5.25	.....
" 801, with $\frac{1}{2}$ in. Pipe Handle and Lever	"	1.65	2.78	3.90	5.40	.....
" 802, With Solid Bolt and Lever	"	1.13	2.25	3.38	4.88	.....

NOTE. The given Sizes are for the Spigot end of the Pipe, and will suit for the hub end of Pipe one size smaller.

Barnes' Three Wheeled Soil Pipe Cutter.

Fig. 803.



	No. 4.	No. 5.	No. 6.
Number	Cuts 3 to 4 In.	Cuts 4 to 5 In.	Cuts 6 to 8 In.
Price each.	20.00	30.00	40.00

Plumbers' Tools.

Plumbers' Pipe Holder.

Rubber Force Cup.

Fig. 804.

Fig. 805.

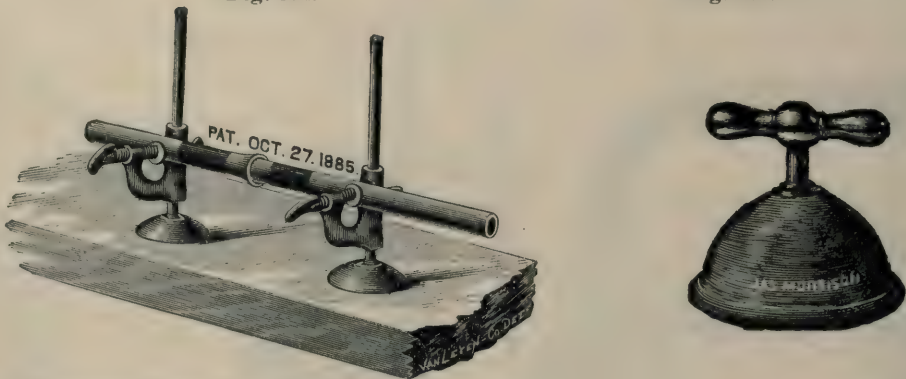


Fig. 804. Plumbers' Lead Pipe Holder for Soldering

" 805. Rubber Force Cup

price each \$0.50

" 1.50

Wash Basin and Sink Forcer.

Fig. 806.



Rubber Forcer-

price each \$0.90

Lead Pipe Bending Spring.

Fig. 807.



Size of Spring, for Lead Pipe	1 1/4	1 1/2	2
Price each	1.75	1.75	2.00

Plumbers' Solder Pots.

Fig. 808.



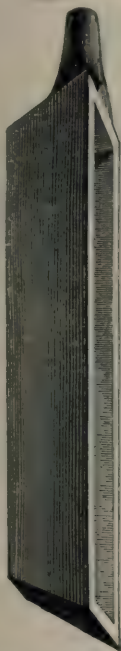
Size, Diameter of Top, inches	5	6	7	8	9
Price each	75	1.00	1.05	1.60	2.00

Plumbers' Tools.

Solder Moulds.

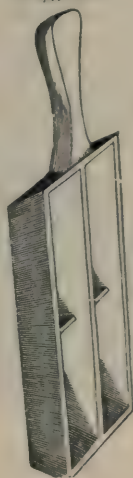
Pig Lead Mould

Fig. 809.



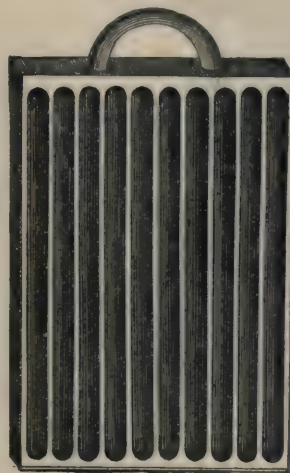
Two and Four Bar Moulds

Fig. 810.



Strap Solder Mould Half Round Bar

Fig. 811.



Square Bar Solder Mould

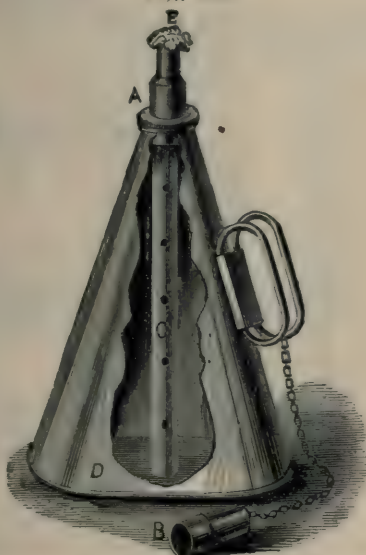
Fig. 812.



Fig. 809.	Cast Iron Pig Lead Mould	Price each	\$4.00
" 810.	" Two Bar Solder Mould	"	1.00
" " "	" Four " " "	"	1.50
" 811.	" Strap Solder Mould	"	3.00
" 812.	" Square Bar Solder Mould	"	3.00

Plumbers' and Gas Fitters' Alcohol Torch

Fig. 813.



"The Diamond" Gasoline Torch

Fig. 814.



This is the most convenient Torch in the Market. It is made to use for light work by Gas Fitters, Painters, etc. The Tank holds about a half pint of Gasoline. The Handle can be adjusted at any Angle. No Mechanic should be without it.

Fig. 813.	Plumbers' Torch	Price each, Tin--	\$1.25 ; Copper--	\$1.60
" 814.	"The Diamond" Gasoline Torch	Price each	4.50	

Plumber's Tools.

Plumbers' Furnaces.

"The Helper."

Fig. 815.

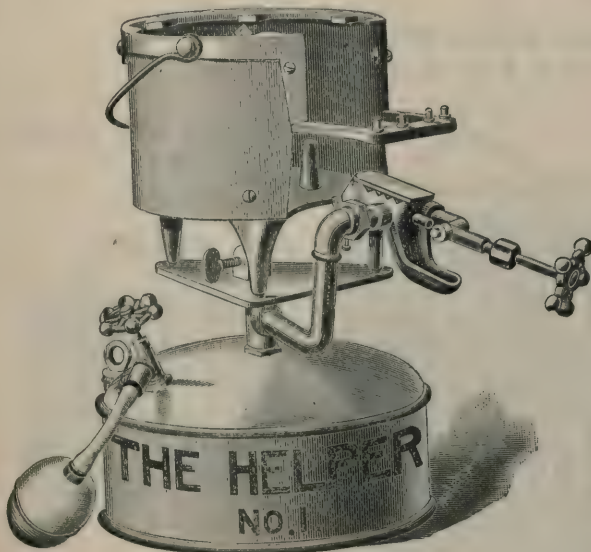


Fig. 816.



Fig. 815. No. 1. Single Burner, for ordinary Plumber's use, price each 8.50
 " 816. No. 2. Double Burner for Heavy Work " " 12.00

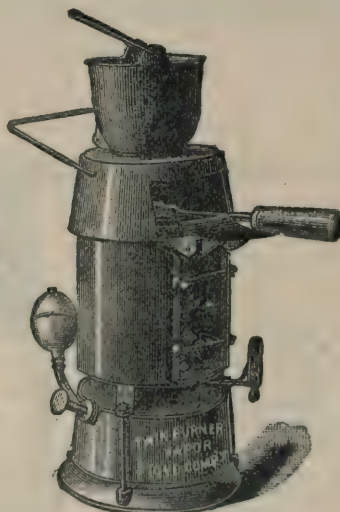
The "Favorite"
Paint Burner.

Fig. 817.



The "Dangler"
Furnace.

Fig. 818.



Gasoline
Electrical Forge.

Fig. 819.

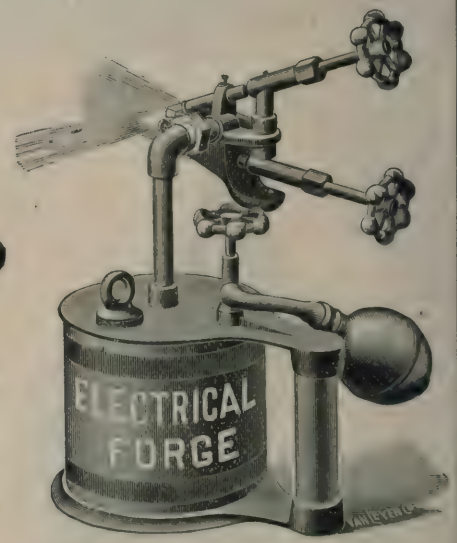
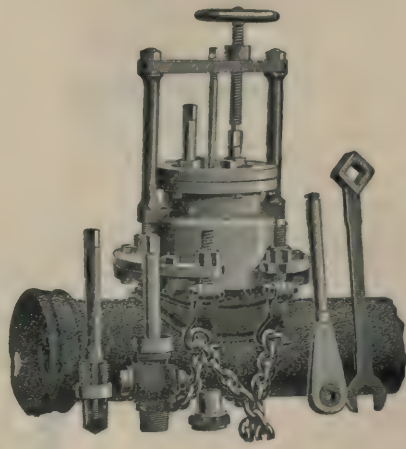
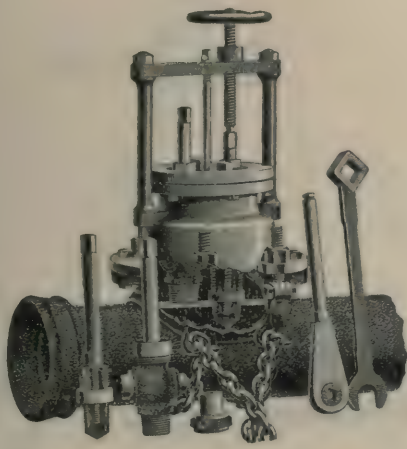


Fig. 817. The Favorite Paint Burner price each 6.50
 " 818. The Dangler Furnace " " 10.00
 " 819. The Gasoline Electrical Forge " " 7.50

Plumbers' Tools.

The "Hall" Tapping Machines for Water Mains.

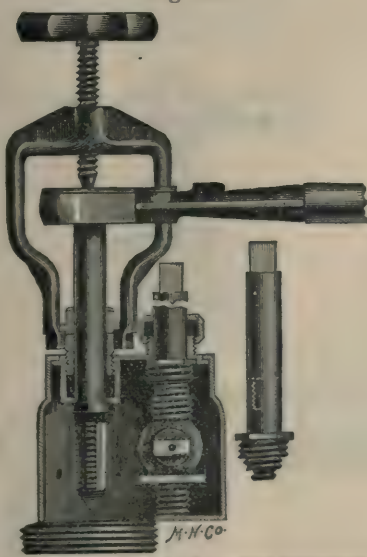
Fig. 820.



The "Hall" Machine Complete, Taps $\frac{1}{2}$ to $1\frac{1}{4}$ In. Price each 157.50

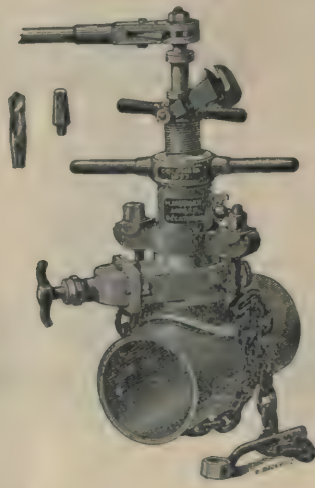
The "Payne" Tapping Machine.

Fig. 821.



The "Mueller" Tapping Machine.

Fig. 822.



Number	1	2	3	4
Fig. 821. Size of Taps	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$	$\frac{1}{2}$, $\frac{3}{4}$, 1	$\frac{3}{4}$, 1, $1\frac{1}{4}$	1, $1\frac{1}{4}$, $1\frac{1}{2}$
Price, each	157.50	197.00	237.25	275.75
Fig. 822. The "Mueller" Machine complete, Taps $\frac{1}{2}$ to 1 In.	Price each			160.00

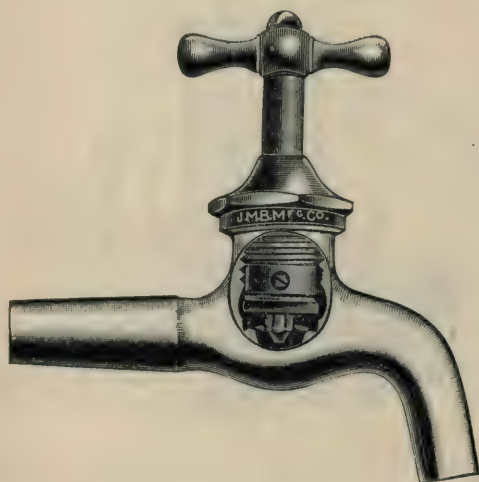
Plumbers' Brass Work.

Compression Bibbs.

MORRISON'S IMPROVED COMPRESSION BIBB WITH NOISELESS VALVE.

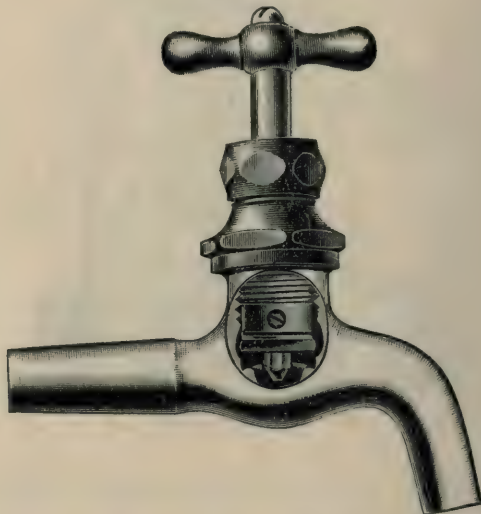
WITHOUT STUFFING BOX.

Fig. 823.



WITH STUFFING BOX.

Fig. 824.



THE "GRUNDY" PATTERN COMPRESSION BIBB

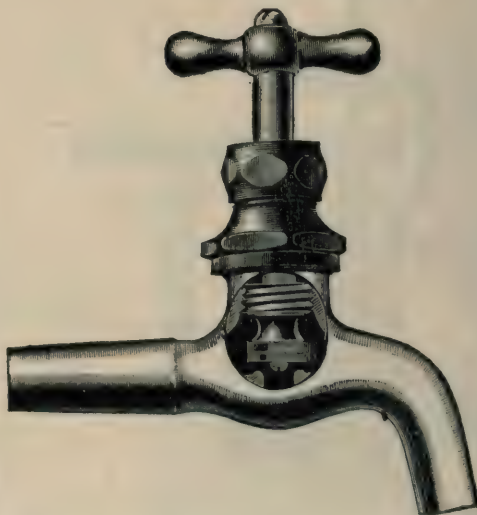
WITHOUT STUFFING BOX.

Fig. 825.



WITH STUFFING BOX.

Fig. 826.



The above cuts illustrate the styles of Compression Bibbs we make. Figs. 823 and 824 illustrate the "Morrison's" Noiseless Valve attached to the Grundy Pattern and is what it claims to be—Positively "NOISELESS" under the highest pressures. Figs. 825 and 826 are the ordinary "Grundy" Pattern with Raised or Flat Seats as may be required. The following illustrations and prices apply to both the Morrison's Improved and the Grundy Pattern.

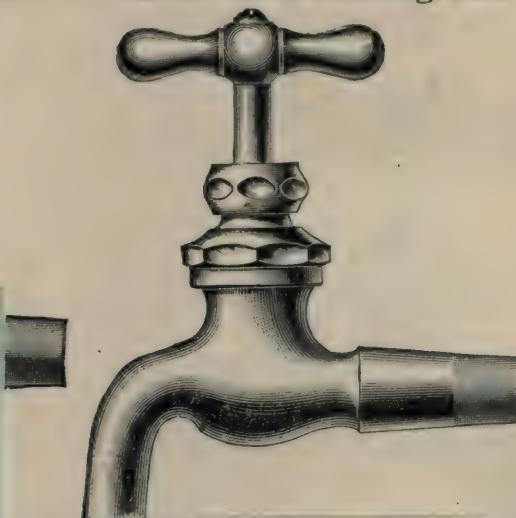
Compression Plain Bibbs

For Lead Pipe.

Fig. 827. Without Stuffing Box.



Fig. 828. With Stuffing Box.



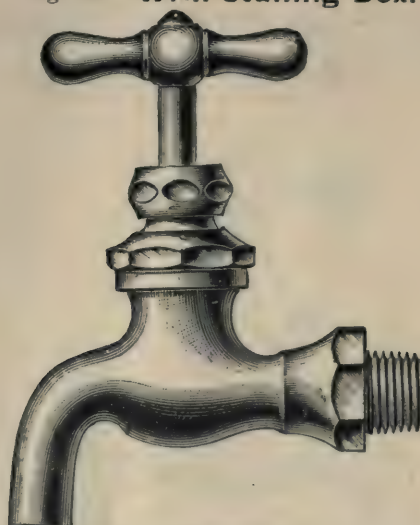
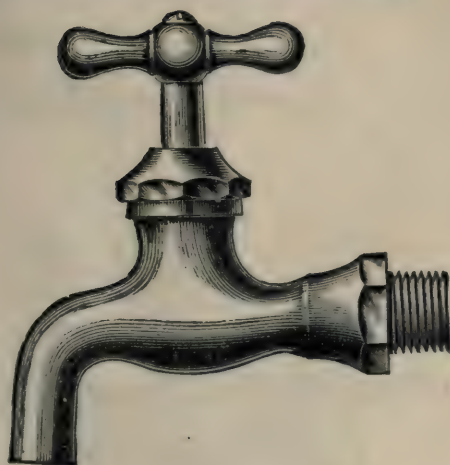
**Morrison's Patent
Compression Cushion Bibbs**

See Pages 602-604.

$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
10.50	12.00	17.00	30.00	44.00	68.00	140.00
11.00	13.00	18.00	34.00	52.00	80.00	160.00
13.00	15.00	20.50	37.00	.....	.....	.....
12.50	14.00	20.00	34.00	.....	.....	.....
13.00	15.00	21.00	38.00	.....	.....	.....
15.00	17.00	23.50	41.00	.....	.....	.....

e—With Shoulder.

Fig. 830. With Stuffing Box.



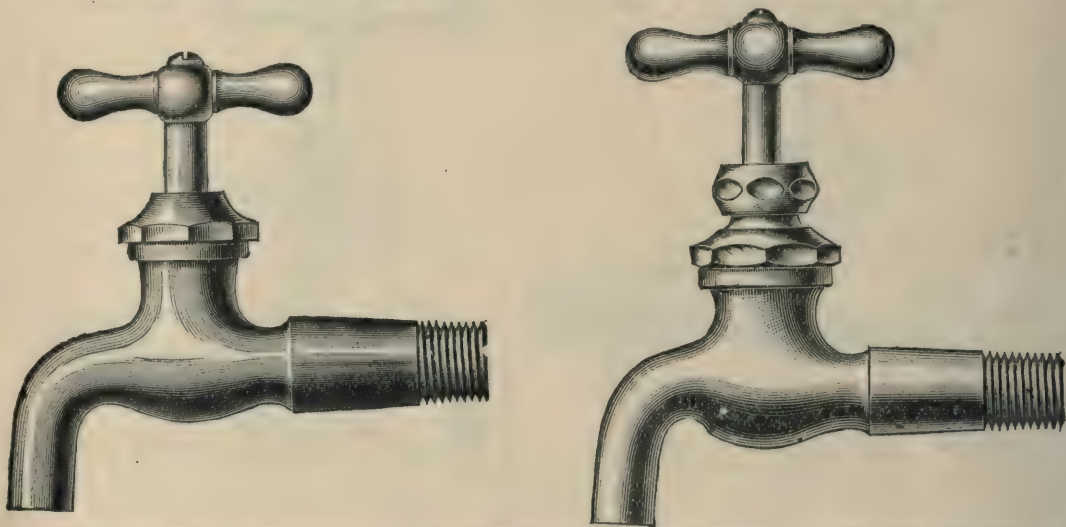
Size, Inches			$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 829.	Rough,	per dozen	11.50	12.50	14.00	19.00	33.00	48.00	74.00	150.00
" "	Finished,	"	12.00	13.00	15.00	20.00	37.00	56.00	86.00	170.00
" "	Nickel Plated,	"	14.00	15.50	17.50	22.50	40.00	.....	.....	.....
" 830.	Rough,	"	13.50	14.50	16.00	22.00	37.00	.....	.....	.....
" "	Finished,	"	14.00	15.00	17.00	23.00	41.00	.....	.....	.....
" "	Nickel Plated,	"	16.00	17.50	19.50	25.50	44.00	.....	.....	.....

Compression Plain Bibbs.

For Iron Pipe, Without Shoulder

Fig. 831.—Without Stuffing Box.

Fig. 832.—With Stuffing Box.

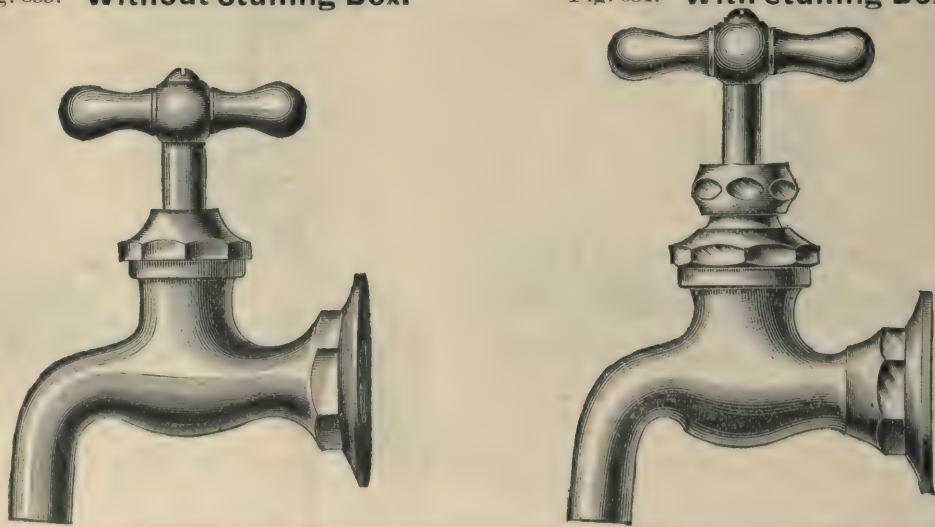


Size, Inches			$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 831.	Rough, . . .	per dozen	11.50	12.50	14.00	19.00	33.00
" "	Finished, . . .	"	12.00	13.00	15.00	20.00	37.00
" "	Nickel Plated, . . .	"	14.00	15.50	17.50	22.50	40.00
" 832.	Rough, . . .	"	13.50	14.50	16.00	22.00	37.00
" "	Finished, . . .	"	14.00	15.00	17.00	23.00	41.00
" "	Nickel Plated . . .	"	16.00	17.50	19.50	25.50	44.00

For Iron Pipe, Flange and Inside Screw

Fig. 833.—Without Stuffing Box.

Fig. 834.—With Stuffing Box.



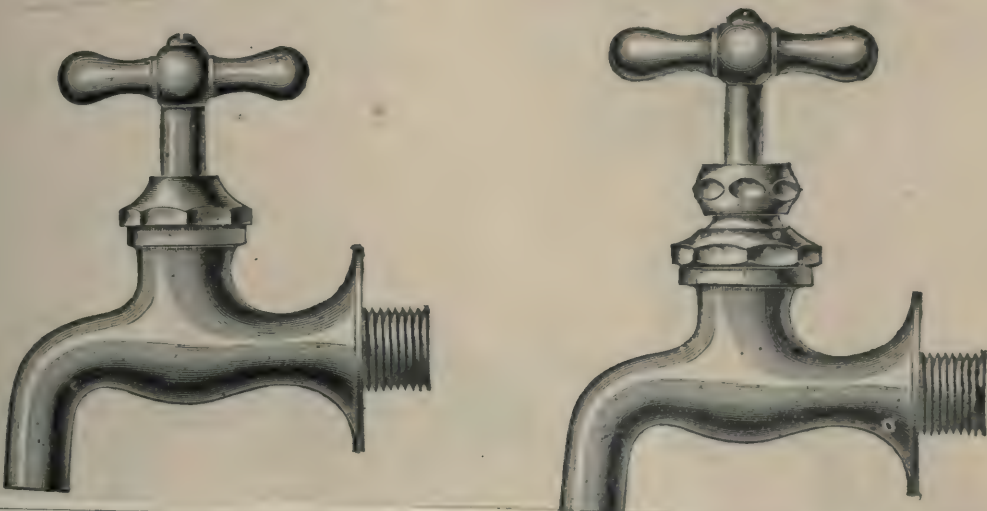
Size, Inches			$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Fig. 833.	Finished	Price per doz.	16.00	18.50	25.00
" "	Nickel Plated	" "	18.50	21.00	27.50
" 834.	Finished	" "	18.00	20.50	28.00
" "	Nickel Plated	" "	20.50	23.00	30.50

Compression Plain Bibbs.

For Iron Pipe, with Flange and Outside Screw.

Fig. 835—Without Stuffing Box

Fig. 836—With Stuffing Box

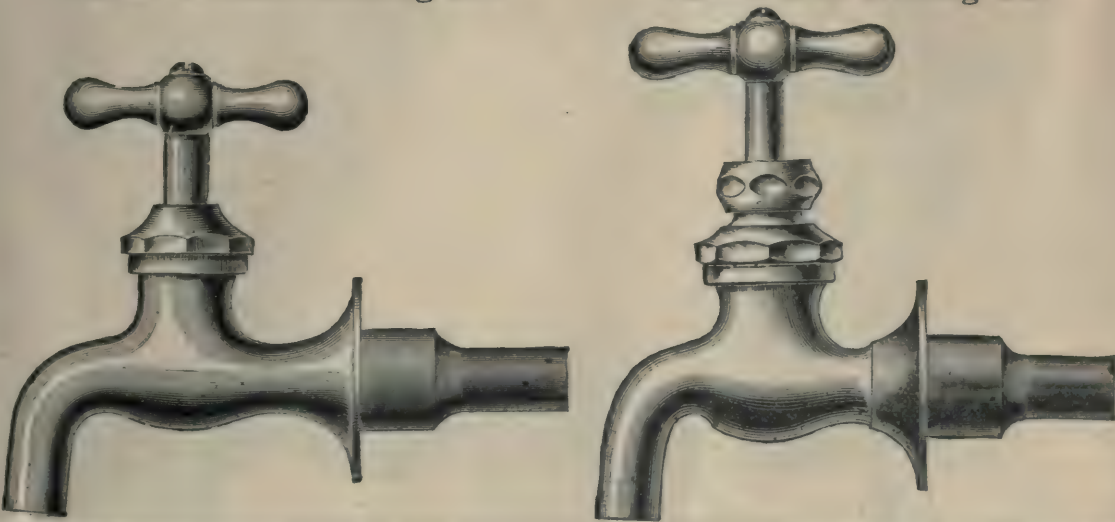


Size, Inches				$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	1
Fig. 835.	Finished,		per dozen	16.00	17.50	25.00	46.00
" "	Nickel Plated,		"	18.50	20.00	27.50	49.00
" 836.	Finished,		"	18.00	19.50	28.00	50.00
" "	Nickel Plated,		"	20.50	22.00	30.50	53.00

With Flange and Thimble.

Fig. 837.—Without Stuffing Box

Fig. 838.—With Stuffing Box

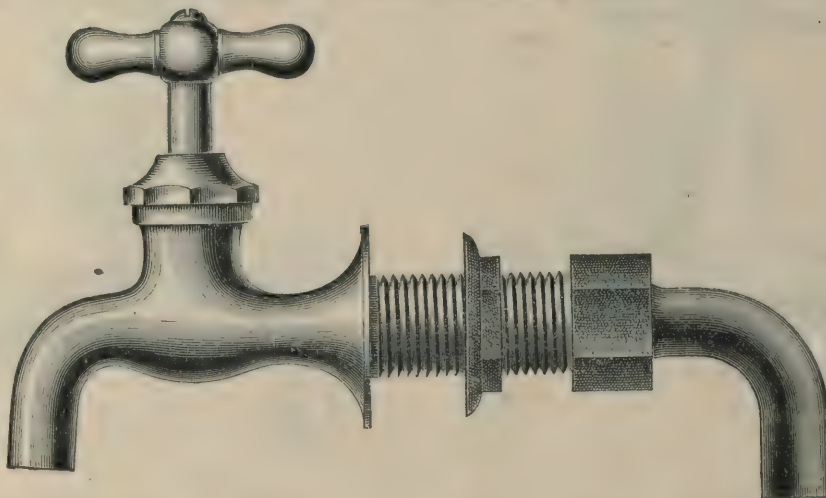


Size, Inches				$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 837.	Finished,	per dozen		16.00	18.00	21.00	51.00
" "	Nickel Plated,	"		18.00	20.50	23.50	54.00
" 838.	Finished,	"		18.00	20.00	23.00	55.00
" "	Nickel Plated,	"		20.00	22.50	25.50	58.00

Compression Plain Bibbs.

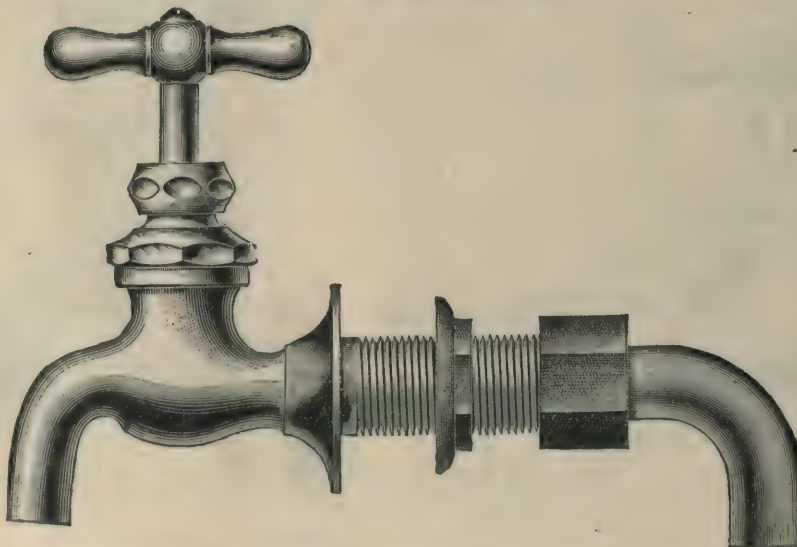
With Flange, Nut and Bent Coupling.

Fig. 839. **Without Stuffing Box.**



Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished	Price per Dozen	25.00	32.00	44.00
Nickel Plated	" "	28.50	35.50	48.00

Fig. 840. **With Stuffing Box.**



Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished	Price per Dozen	27.00	34.00	47.00
Nickel Plated	" "	30.50	37.50	51.00

Compression Plain Bibbs.

For Lead Pipe With Detachable Shank.

Fig. 841. — WITHOUT STUFFING BOX.

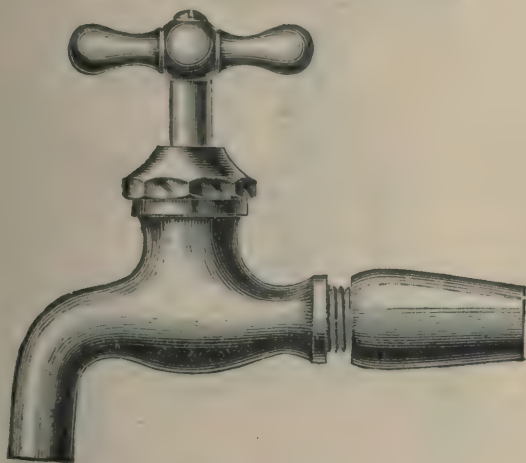
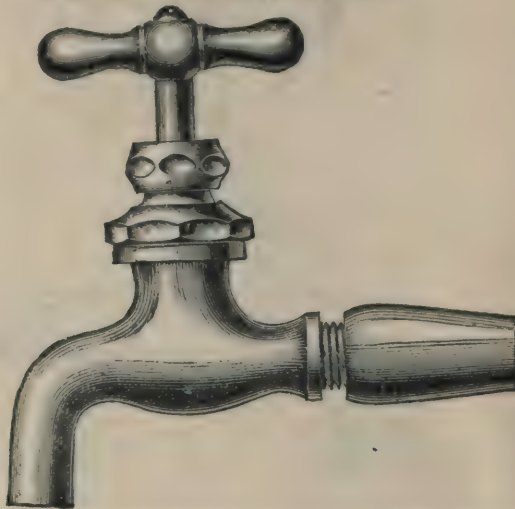


Fig. 842. — WITH STUFFING BOX.



Size, Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Fig. 841, Finished	15.00	17.00	23.00
" 841, Nickel Plated	17.50	19.50	25.50
" 842, Finished	17.00	19.00	26.00
" 842, Nickel Plated	19.50	21.50	28.50

With Loose Key Handle.

Fig. 843. — FOR LEAD PIPE.

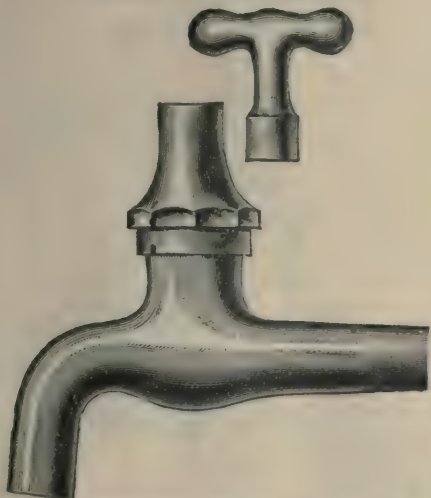
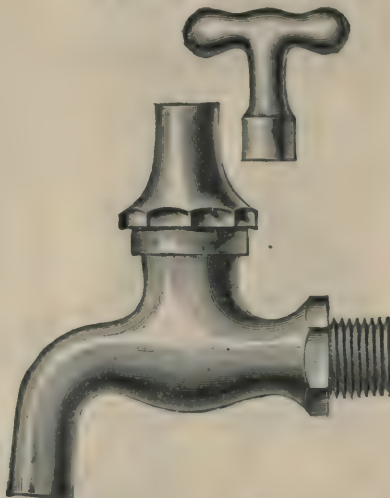


Fig. 844. — FOR IRON PIPE.



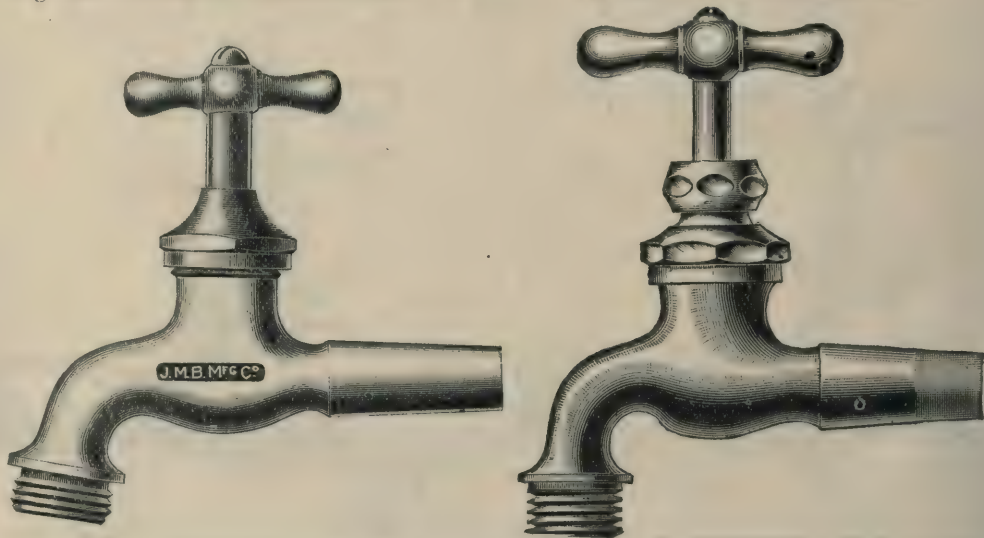
Size, Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
Fig. 843. Finished, per dozen	17.00	19.00	25.00	42.00
" " Nickel Plated, "	19.50	21.50	27.50	45.00
" 844. Finished, "	19.00	21.00	27.00	45.00
" " Nickel Plated, "	21.50	23.50	29.50	48.00

Compression Hose Bibbs.

For Lead Pipe

Fig. 845.—WITHOUT STUFFING BOX.

Fig. 846.—WITH STUFFING BOX.

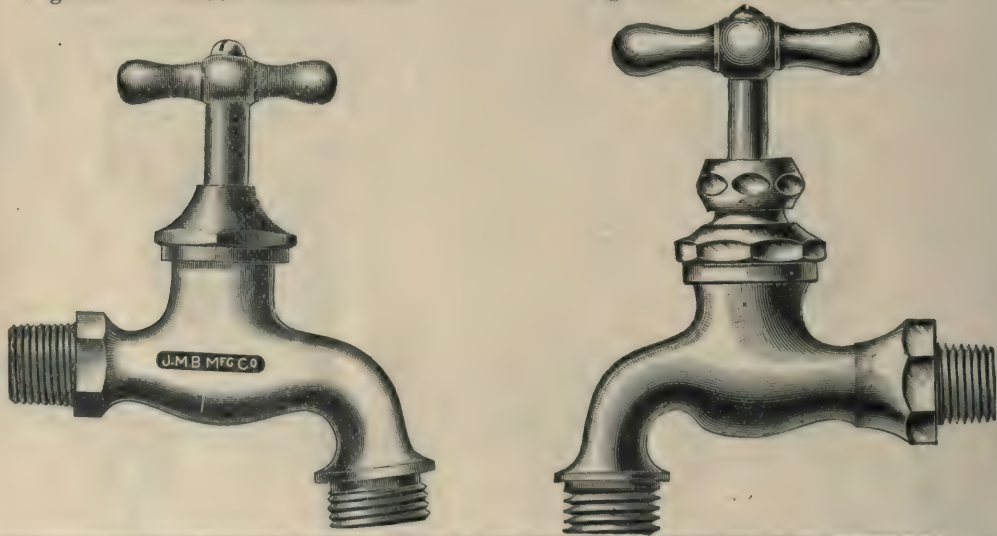


Size, Inches				$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 845.	Rough.	.	per dozen	11.50	12.50	14.00	19.00	33.00
" "	Finished,	.	"	12.00	13.00	15.00	20.00	37.00
" "	Nickel Plated,	.	"	14.00	15.50	17.50	22.50	40.00
Fig. 846.	Rough,	.	"	13.50	14.50	16.00	22.00	37.00
" "	Finished,	.	"	14.00	15.00	17.00	23.00	41.00
" "	Nickel Plated,	.	"	16.00	17.50	19.50	25.50	44.00

For Iron Pipe With Shoulder

Fig. 847.—WITHOUT STUFFING BOX.

Fig. 848.—WITH STUFFING BOX.



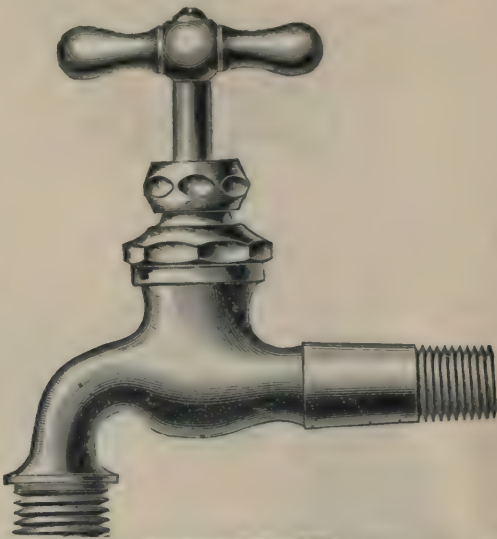
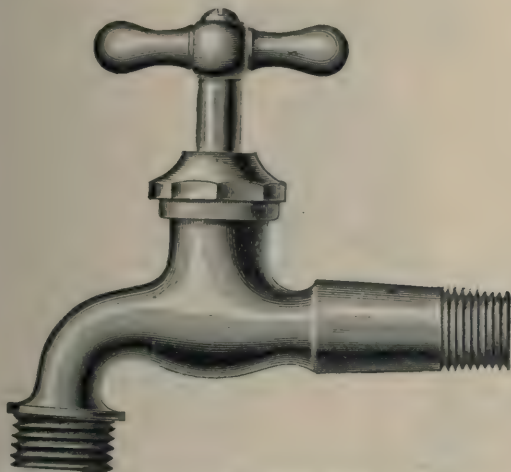
Size, Inches				$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 847.	Rough,	.	per dozen	13.50	14.50	16.00	21.00	36.00
" "	Finished,	.	"	14.00	15.00	17.00	22.00	40.00
" "	Nickel Plated,	.	"	16.00	17.50	19.50	24.50	43.00
" 848.	Rough,	.	"	15.50	16.50	18.00	24.00	40.00
" "	Finished,	.	"	16.00	17.00	19.00	25.00	44.00
" "	Nickel Plated,	.	"	18.00	19.50	21.50	27.50	47.00

Compression Hose Bibbs.

For Iron Pipe, Without Shoulder.

Fig. 849.—WITHOUT STUFFING BOX.

Fig. 850.—WITH STUFFING BOX.

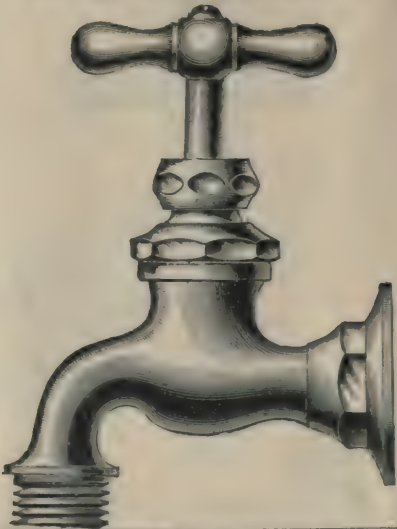


Size, Inches,			$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	1
Fig. 849.	Rough, .	per dozen	13.50	14.50	16.00	21.00	36.00
" "	Finished, .	"	14.00	15.00	17.00	22.00	40.00
" "	Nickel Plated, .	"	16.00	17.50	19.50	24.50	43.00
" 850.	Rough, .	"	15.50	16.50	18.00	24.00	40.00
" "	Finished, .	"	16.00	17.00	19.00	25.00	44.00
" "	Nickel Plated, .	"	18.00	19.50	21.50	27.50	47.00

For Iron Pipe, With Flange and Inside Screw.

Fig. 851.—WITHOUT STUFFING BOX.

Fig. 852.—WITH STUFFING BOX.



Size, Inches,			$\frac{1}{2}$	$\frac{3}{4}$	1	1
Fig. 851.	Finished, .	per dozen	18.00	19.50	27.00	49.00
" "	Nickel Plated, .	"	20.50	22.00	29.50	52.00
" 852.	Finished, .	"	20.00	21.50	30.00	53.00
" "	Nickel Plated, .	"	22.50	24.00	32.50	56.00

Compression Hose Bibbs.

For Iron Pipe, with Flange and Outside Screw.

Fig. 853.—WITHOUT STUFFING BOX.

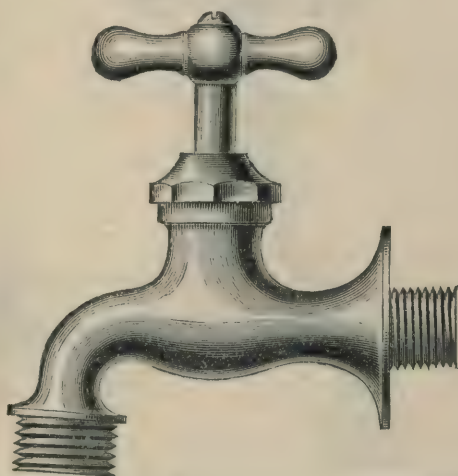
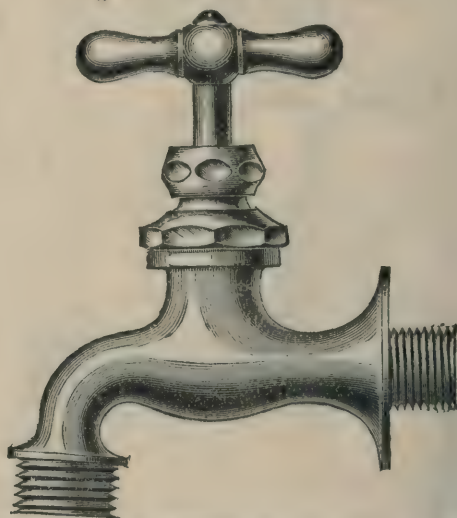


Fig. 854.—WITH STUFFING BOX.



Size, Inches				$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 853.	Finished,	. . . . .	per dozen	18.00	19.50	27.00	49.00
" "	Nickel Plated,	. . . . .	"	20.50	22.00	29.50	52.00
" 854.	Finished,	. . . . .	"	20.00	21.50	30.00	53.00
" "	Nickel Plated,	. . . . .	"	22.50	24.00	32.50	56.00

With Flange and Thimble.

Fig. 855.—WITHOUT STUFFING BOX.

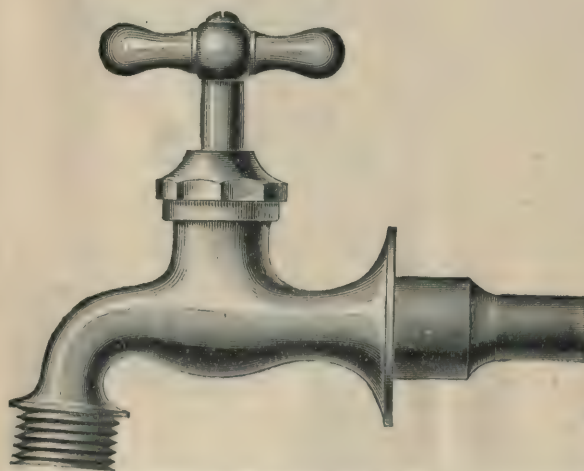
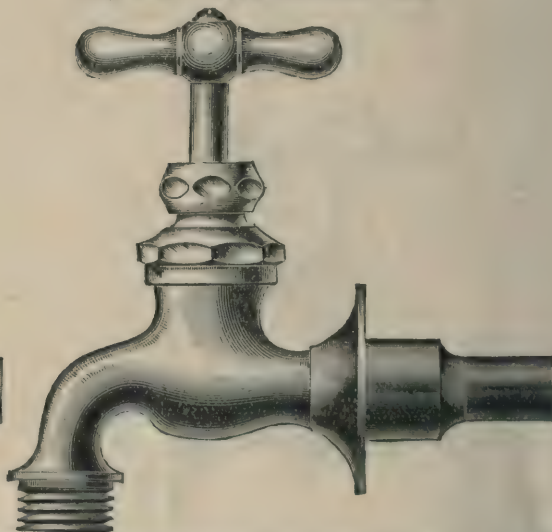


Fig. 856.—WITH STUFFING BOX.

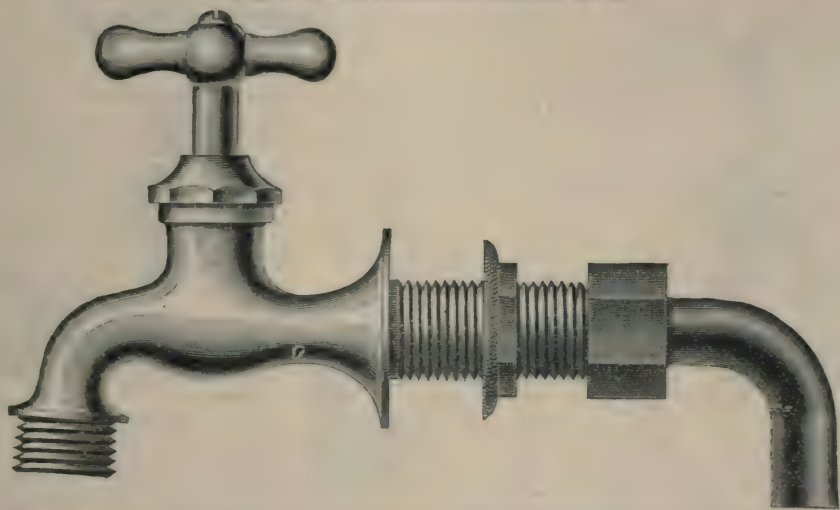


Size, Inches				$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 855.	Finished,	. . . . .	per dozen	20.00	23.00	30.00
" "	Nickel Plated,	. . . . .	"	22.00	25.00	32.00
" 856.	Finished,	. . . . .	"	22.00	25.00	33.00
" "	Nickel Plated,	. . . . .	"	24.00	27.00	35.00

Compression Hose Bibbs.

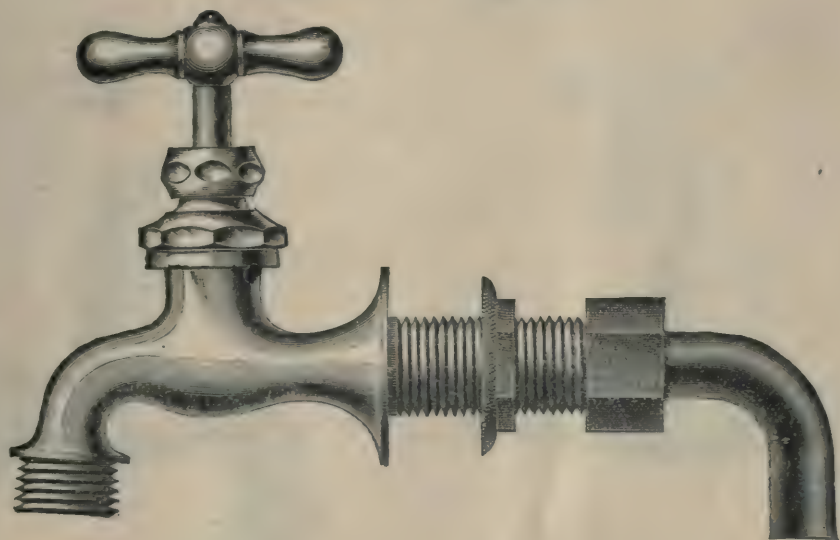
With Flange Nut and Bent Coupling.

Fig. 857. - WITHOUT STUFFING BOX.



Size, Inches				$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$
Fig. 857.	Finished,			27.00	34.00	46.00
" "	Nickel Plated,			30.50	37.50	50.00
			per dozen			

Fig. 858. - WITH STUFFING BOX.



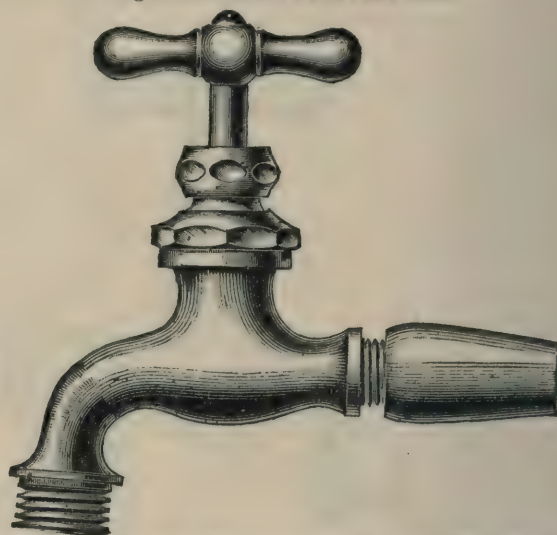
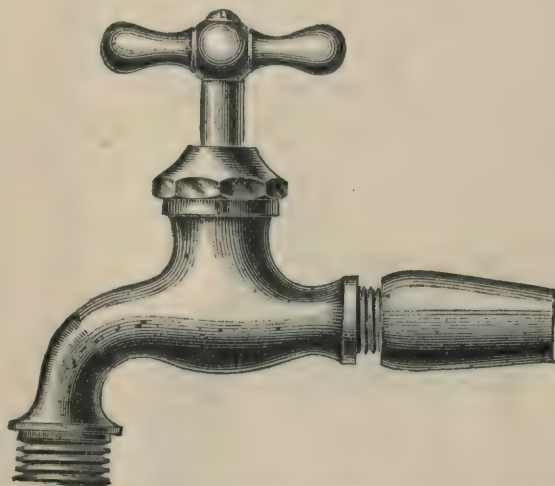
Size, Inches				$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$
Fig. 858.	Finished,			29.00	36.00	49.00
" "	Nickel Plated,			32.50	39.50	53.00
			per dozen			

Compresssion Hose Bibbs.

For Lead Pipe With Detachable Shank.

Fig. 859.—WITHOUT STUFFING BOX.

Fig. 860.—WITH STUFFING BOX.

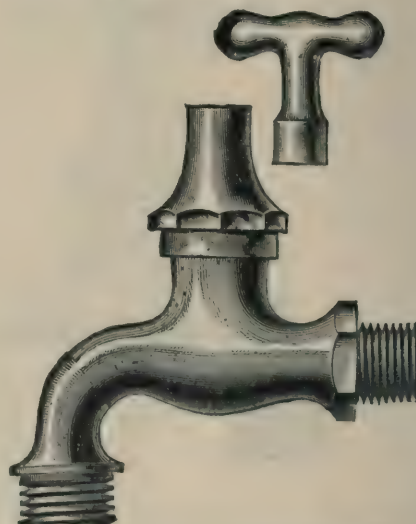


Size, Inches,		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 859. Finished,	price per dozen	16.00	18.00	25.00
" " Nickel Plated,	" "	18.50	20.50	27.50
" 860. Finished,	" "	18.00	20.00	28.00
" " Nickel Plated,	" "	20.50	22.50	30.50

With Loose Key Handle.

Fig. 861.—FOR LEAD PIPE.

Fig. 862.—FOR IRON PIPE.



Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 861. Finished,	per dozen	18.00	20.00	27.00	44.00
" " Nickel Plated,	" "	20.50	22.50	29.50	47.00
" 862. Finished,	" "	20.00	22.00	29.00	47.00
" " Nickel Plated,	" "	22.50	24.50	31.50	50.00

Compression Wash Tray Bibbs.

e, Inches	FIG. 863.		FIG. 864.		FIG. 865.	
	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
ished, per dozen	14.00	16.00	12.00	14.00	19.00	22.00
Nickel Plated, "	16.00	18.50	14.50	16.50	22.50	25.50

B.L.E.

e, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
866. Finished, per dozen	26.00	33.00	46.00
" Nickel Plated, "	29.50	36.50	50.00

e, Inches	FIG. 867.		FIG. 868.		FIG. 869.	
	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
ished, per dozen	14.00	16.00	12.00	14.00	19.00	22.00
Nickel Plated, "	16.50	18.50	14.50	16.50	22.50	25.50

e, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
871. Finished,	15.00	18.00	26.00
" Nickel Plated,	17.50	20.50	28.50
872. Finished,	17.00	20.00	28.00
" Nickel Plated,	19.50	22.50	30.50

865.

 $\frac{5}{8}$

22.00

25.50

e, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
873. Finished, per dozen	17.00	20.00	28.00
" Nickel Plated, "	19.50	22.50	30.50
874. Finished,	22.00	26.00	36.00
" Nickel Plated, "	25.50	29.50	40.00

e, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
877. Finished,	29.00	37.00	52.00
" Nickel Plated,	32.50	40.50	57.00

e, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
942. Rough, per dozen	10.50	11.50	13.00	21.00	32.00	48.00	84.00
" Finished, "	11.00	12.00	14.00	22.00	36.00	56.00	96.00
" Nickel Plated, "	13.00	14.50	16.50	24.50	39.00	.....	.....
943. Rough,	12.50	13.50	15.00	24.00	36.00	.....	.....
" Finished, "	13.00	14.00	16.00	25.00	40.00	.....	.....
" Nickel Plated, "	15.00	16.50	18.50	27.50	43.00	.....	.....

 $\frac{5}{8}$

33.00

36.50

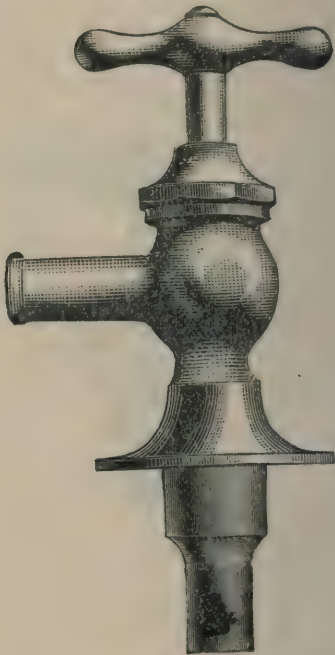
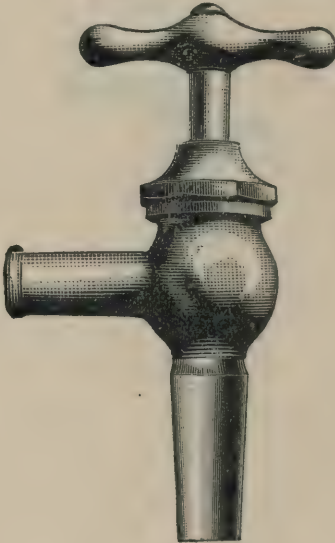
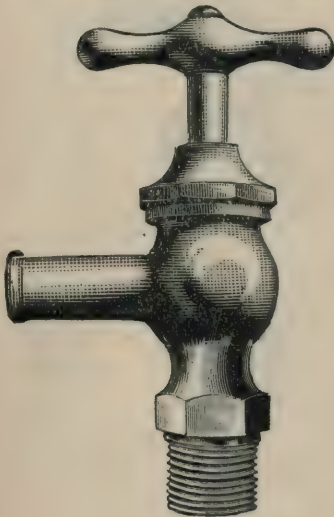
Compression Wash Tray Bibbs.

Straight Pattern.

WITH FLANGE AND THIMBLE.
Fig. 869.

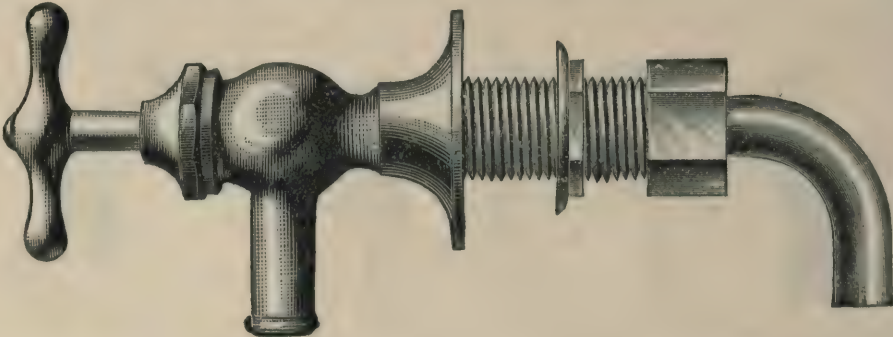
Fig. 867.—FOR IRON PIPE.

Fig. 868—FOR LEAD PIPE.



Size, Inches	FIG. 867.		FIG. 868.		FIG. 869.	
	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
Finished price per doz.	12.00	14.00	11.00	13.00	19.00	22.00
Nickel Plated " "	14.50	16.50	13.50	15.50	22.50	25.50

Fig. 870. — WITH FLANGE NUT AND BENT COUPLING.



Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$
Finished price per dozen	26.00	33.00
Nickel Plated " "	29.50	36.50

Compression Bath Bibbs.

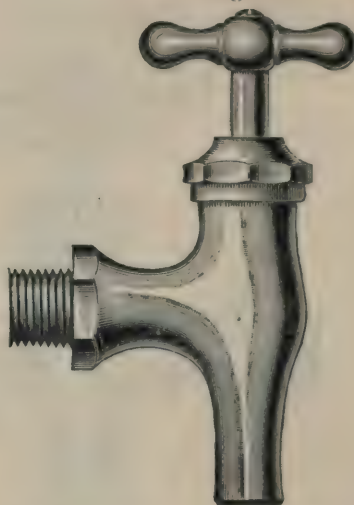
For Lead Pipe.

Fig. 871.



For Iron Pipe with Shoulder.

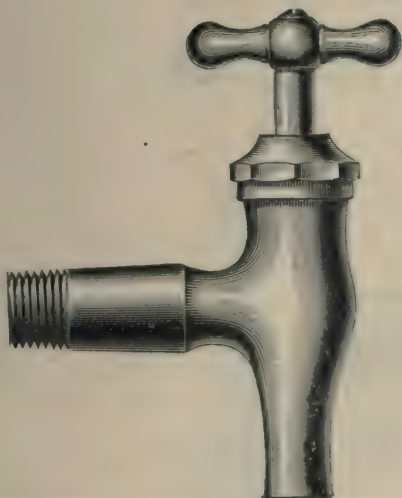
Fig. 872.



Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$
Fig. 871. Finished,	price per dozen	14.00	17.00
" " Nickel Plated,	" "	16.50	19.50
" 872. Finished,	" "	15.00	18.00
" " Nickel Plated,	" "	17.50	20.50

For Iron Pipe without Shoulder.

Fig. 873.



With Flange and Thimble.

Fig. 874.

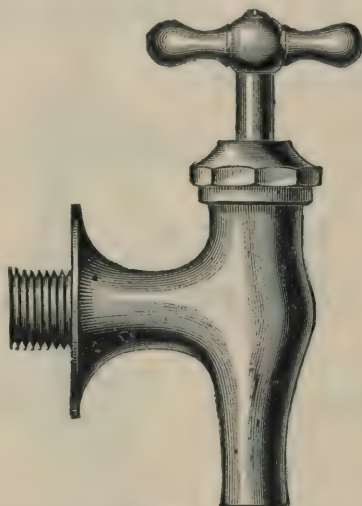


Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$
Fig. 873. Finished,	price per dozen	15.00	18.00
" " Nickel Plated,	" "	17.50	20.50
" 874. Finished,	" "	22.00	26.00
" " Nickel Plated,	" "	25.50	29.50

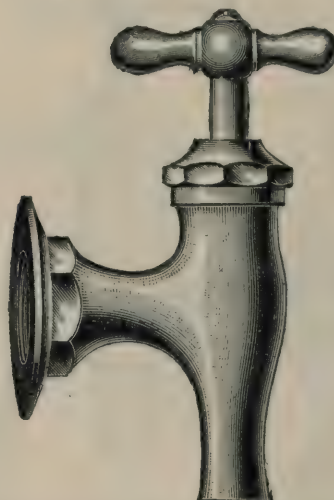
Compression Bath Bibbs.

Fig. 875. **For Iron Pipe.**

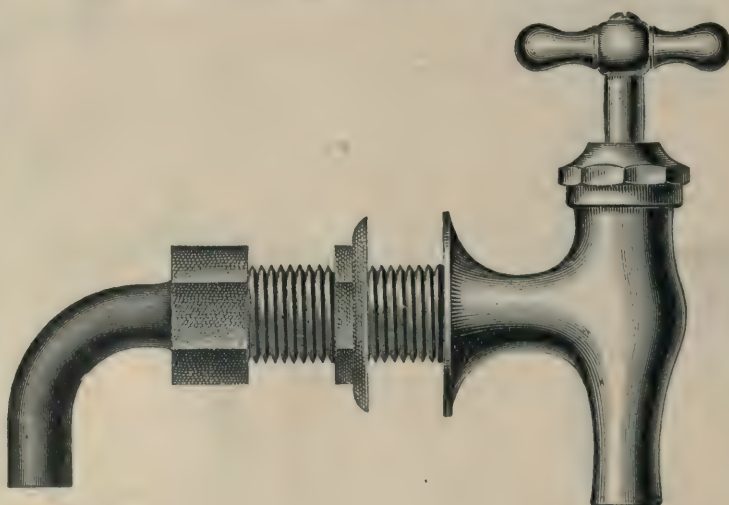
With Outside Screw.

Fig. 876. **For Iron Pipe.**

With Inside Screw.



Size, Inches			$\frac{1}{2}$	$\frac{5}{8}$
Fig. 875.	Finished	Price, per Dozen	19.50	23.50
" "	Nickel Plated.	" "	23.00	27.00
Fig. 876.	Finished	" "	19.50	23.50
" "	Nickel Plated	" "	23.00	27.00

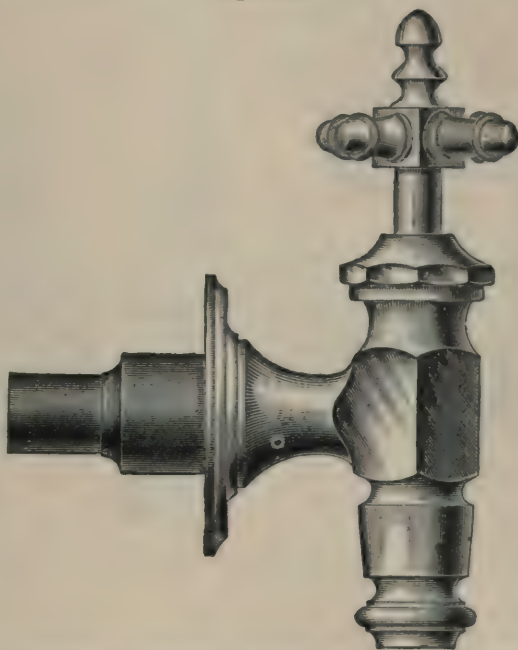
Fig. 877. **With Flange Nut and Bent Coupling.**

Size, Inches			$\frac{1}{2}$	$\frac{5}{8}$
Finished	Price, per Dozen		29.00	37.00
Nickel Plated	" "		32.50	40.50

Compression Bath Bibbs.

Fancy Pattern with X Handle, Flange and Thimble.

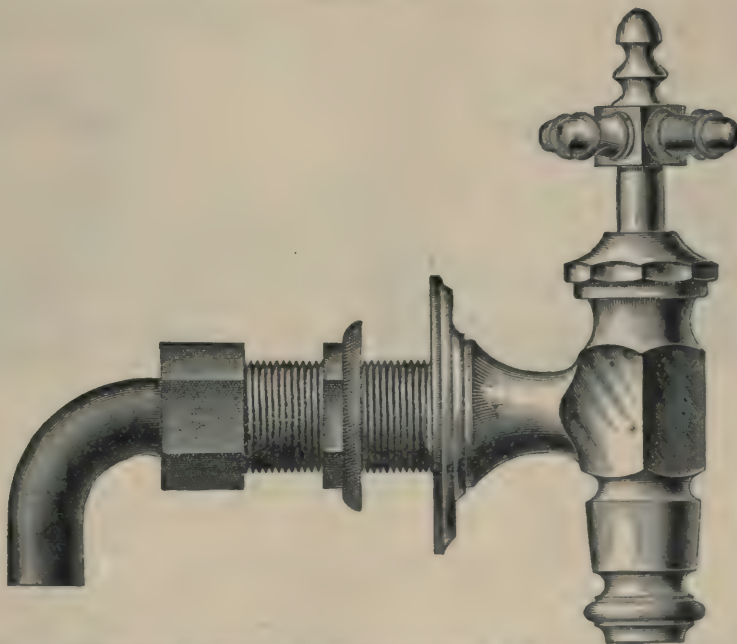
Fig. 878.



Finished,	price per doz.	in.	40.00
Nickel Plated	" "	in.	44.00

Fancy Pattern with X Handle, Flange Nut and Bent Coupling.

Fig. 879.



Finished,	price per doz.	in.	52.00
Nickel Plated,	" "	in.	56.00

Improved Fuller's Bibbs.

Plain Bibbs.

Fig. 880.—FOR LEAD PIPE.

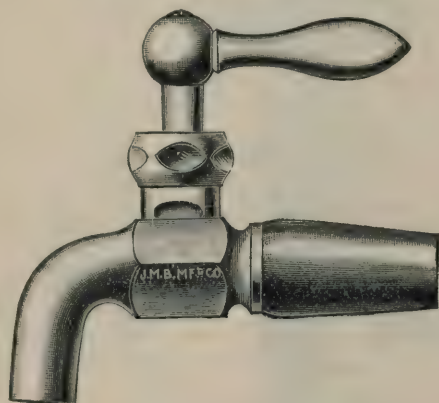
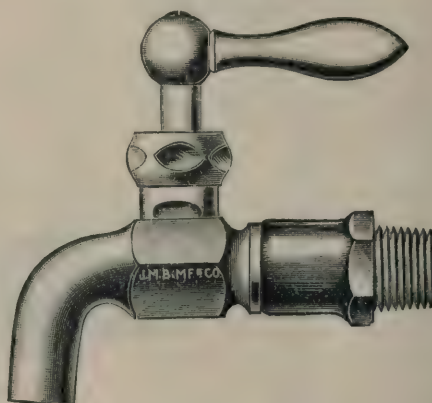


Fig. 881.—FOR IRON PIPE, WITH SHOULDER.



Size, Inches.....		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 880.	Finished.....	Price per dozen			
" "	Nickel Plated	18.00	20.00	26.00	36.00
" "	Nickel Plated	22.00	24.00	32.00	46.00
" 881.	Finished.....	21.00	24.00	30.00	40.00
" "	Nickel Plated	25.00	28.00	36.00	50.00

Fig. 882.—FOR IRON PIPE, WITHOUT SHOULDER.

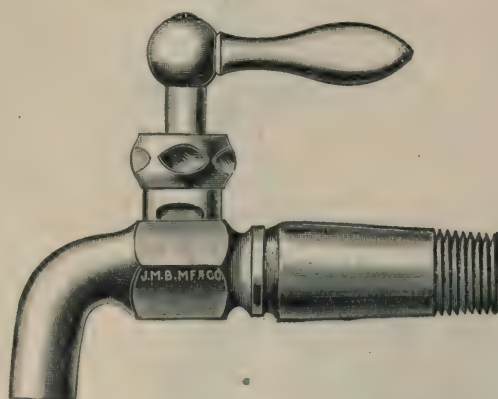
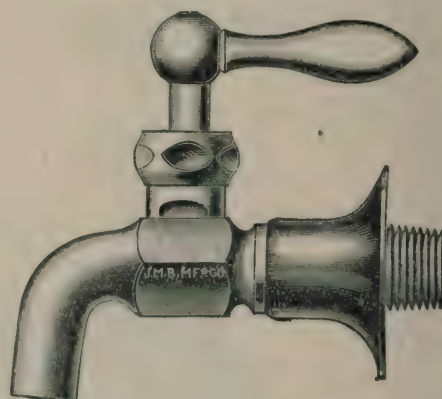


Fig. 883.—FOR IRON PIPE, WITH FLANGE AND OUTSIDE SCREW.

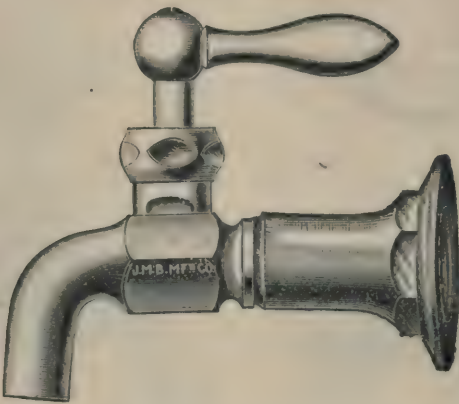


Size, Inches.....		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 882.	Finished.....	Price per dozen			
" "	Nickel Plated	21.00	24.00	30.00	40.00
" "	Nickel Plated	25.00	28.00	36.00	50.00
" 883.	Finished.....	24.00	28.00	34.00	44.00
" "	Nickel Plated	28.00	32.00	40.00	54.00

Improved Fuller Plain Bibbs.

For Iron Pipe, with Flange and Inside Screw.

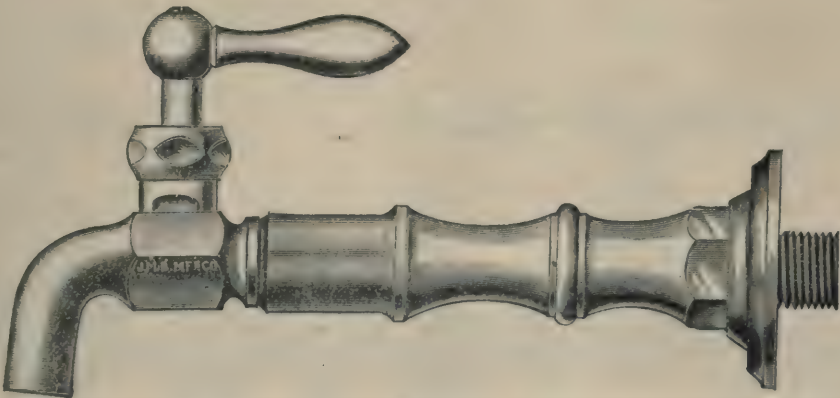
Fig. 884.



Size, Inches.....	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
Fig. 884. Finished	23.50	25.50	33.00	44.00
" 884. Nickel Plated	29.50	31.50	39.00	54.00

Extension Bibb for Earthenware Sink.
For Iron Pipe, with Flange and Outside Screw.

Fig. 885.



SIZE AND DESCRIPTION	$\frac{1}{2}$		$\frac{5}{8}$		$\frac{3}{4}$	
	Finished	N. Plated	Finished	N. Plated	Finished	N. Plated
Fig. 885. 5 in. long. Price per doz.	38.50	42.50	46.00	50.00	59.00	65.00
" 885. 6 " " " "	40.00	44.00	47.50	51.50	61.00	67.00
" 885. 7 " " " "	42.00	46.00	49.00	53.00	63.00	69.00
" 885. 8 " " " "	46.00	50.00	53.00	57.00	67.00	73.00
Add for Lead Pipe Thimble, per doz.	2.50		2.50		3.00	

Improved Fuller's Plain Bibbs. With Flange and Thimble.

Fig. 886. FOR LEAD PIPE.

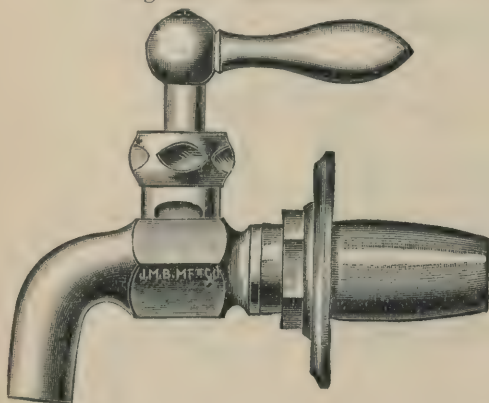
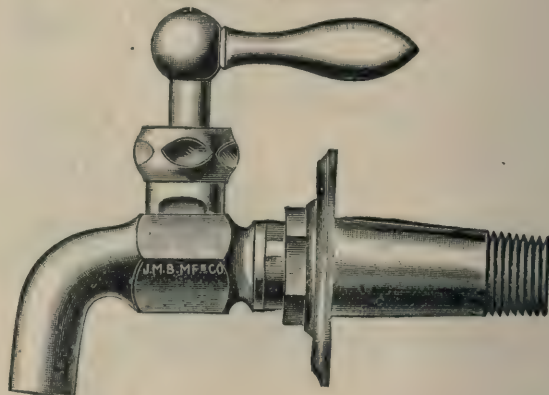
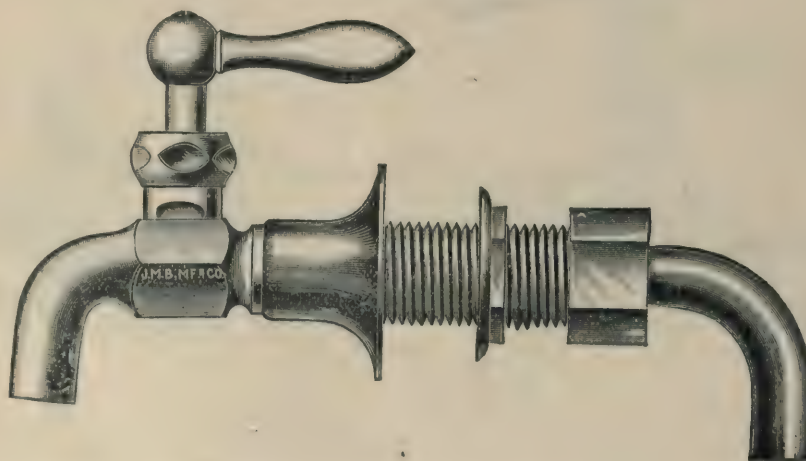


Fig. 887. FOR IRON PIPE.



Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 886. Finished Price per dozen	26.00	28.00	36.00	48.00
" 886. Nickel Plated..... " "	32.00	34.00	42.00	58.00
" 887. Finished " "	29.00	32.00	40.00	52.00
" 887. Nickel Plated..... " "	35.00	38.00	46.00	62.00

Fig. 888. WITH FLANGE, NUT AND BENT COUPLING.



Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 888. Finished Price per dozen	35.00	40.00	54.00	72.00
" 888. Nickel Plated..... " "	41.00	46.00	60.00	82.00

Improved Fuller's Hose Bibbs.

Fig. 889.—FOR LEAD PIPE.

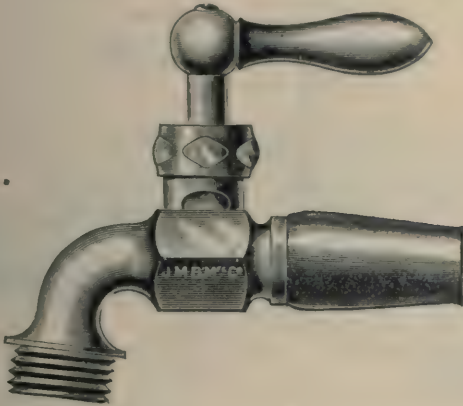
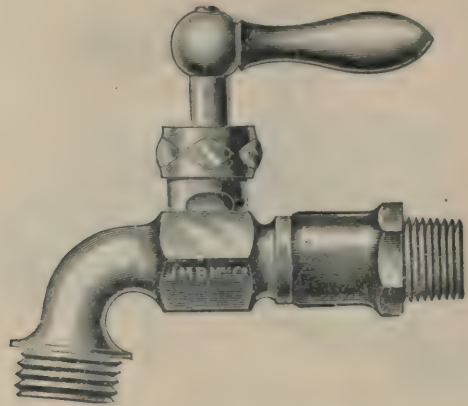


Fig. 890.—FOR IRON PIPE, WITH SHOULDER.



Size, Inches.....	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
Fig. 889. Finished	21.00	24.00	30.00	40.00
" " Nickel Plated	25.00	28.00	36.00	50.00
" 890. Finished	24.00	28.00	34.00	44.00
" " Nickel Plated.....	28.00	32.00	40.00	54.00

Fig. 891.—FOR IRON PIPE, WITHOUT SHOULDER.

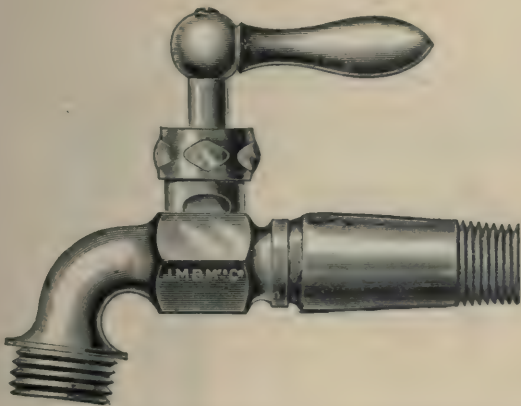
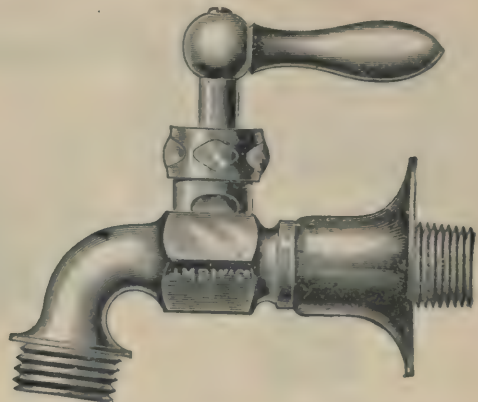


Fig. 892.—FOR IRON PIPE, WITH FLANGE AND OUTSIDE SCREW.



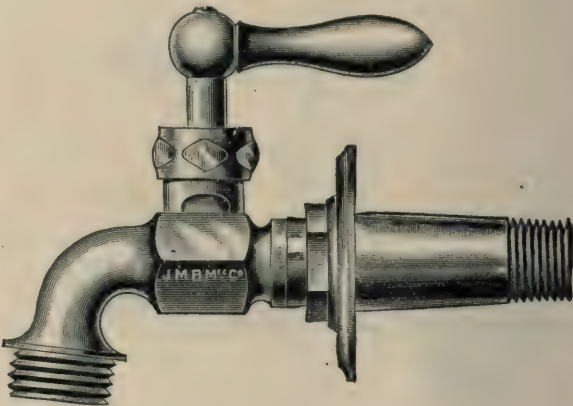
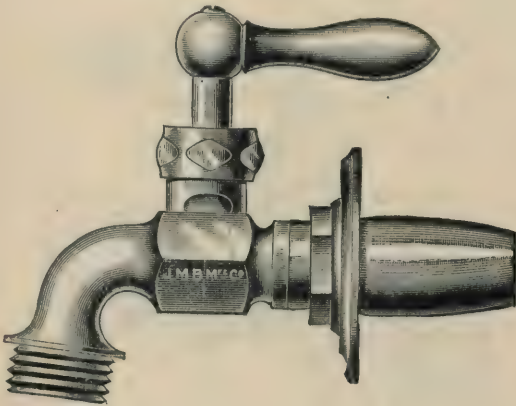
Size, Inches.....	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
Fig. 891. Finished	24.00	28.00	34.00	44.00
" " Nickel Plated	28.00	32.00	40.00	54.00
" 892. Finished	26.50	29.50	37.00	48.00
" " Nickel Plated.....	32.50	35.50	43.00	58.00

Improved Fuller's Hose Bibbs

With Flange and Thimble

Fig. 893—For Lead Pipe.

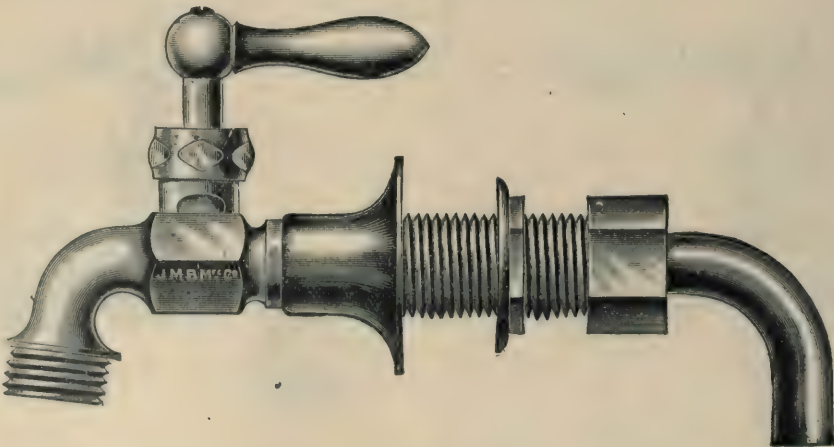
Fig. 894—For Iron Pipe.



Size.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 893 Finished, Price per dozen	29.00	32.00	40.00	52.00
Fig. 893 Nickle Plated " "	35.00	38.00	46.00	62.00
Fig. 894 Finished " "	32.00	36.00	44.00	56.00
Fig. 894 Nickle Plated " "	38.00	42.00	50.00	66.00

With Flange Nut and Bent Coupling

Fig. 895

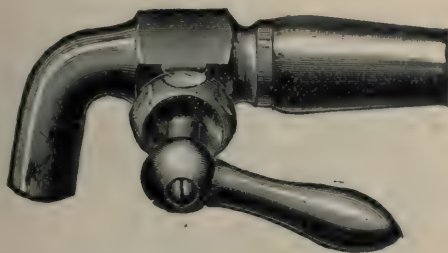


Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished Price per dozen	38.00	44.00	58.00	76.00
Nickle Plated " "	44.00	50.00	64.00	86.00

Improved Fuller's Wash Tray Bibbs.

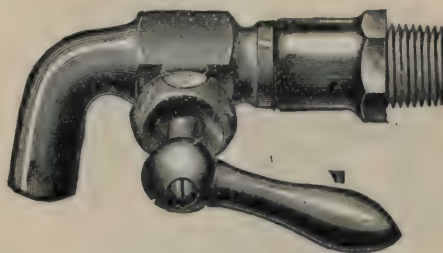
FOR LEAD PIPE.

Fig. 896.



FOR IRON PIPE WITH SHOULDER.

Fig. 897.

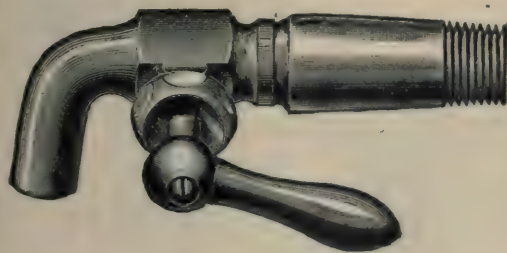


Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 896, Finished.....price per dozen	20.00	22.50	30.00	40.00
" 896, Nickel Plated..... " "	24.00	26.50	36.00	50.00
" 897, Finished..... " "	23.00	26.50	34.00	44.00
" 897, Nickel Plated..... " "	27.00	30.50	40.00	54.00

For Iron Pipe.

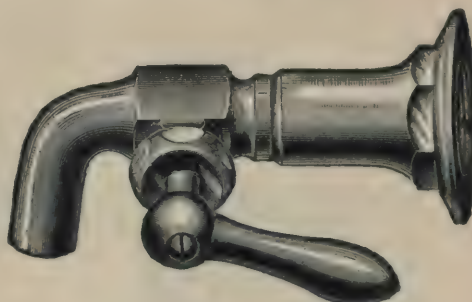
WITHOUT SHOULDER.

Fig. 898.



WITH FLANGE AND INSIDE SCREW.

Fig. 899.



Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 898, Finished.....price per dozen	23.00	26.50	34.00	44.00
" 898, Nickel Plated..... " "	27.00	30.50	40.00	54.00
" 899, Finished..... " "	23.50	25.50	33.00	46.00
" 899, Nickel Plated..... " "	29.50	31.50	39.00	56.00

Improved Fuller's Wash Tray Bibbs.

For Iron Pipe With Flange
and Outside Screw.

For Lead Pipe With Flange
and Thimble.

Fig. 900.

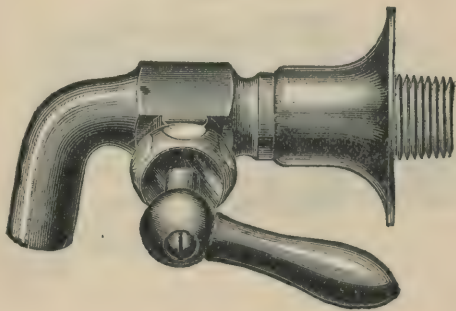
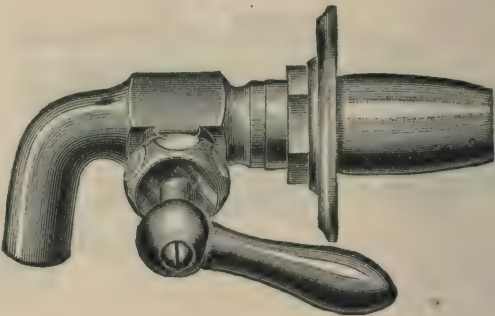


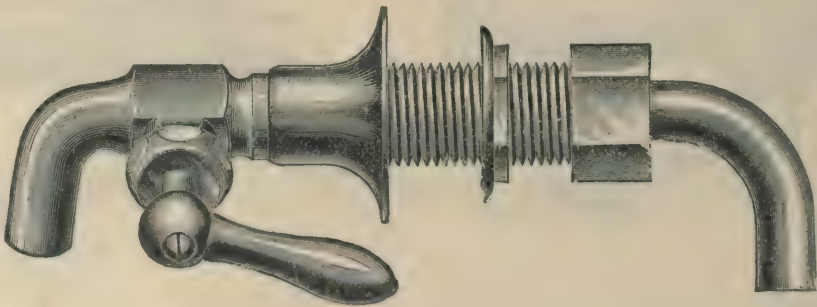
Fig. 901.



Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 900. Finished	23.50	25.50	33.00	46.00
“ 900. Nickel Plated.....	29.50	31.50	39.00	56.00
“ 901. Finished	26.00	28.00	36.00	50.00
“ 901. Nickel Plated	32.00	34.00	42.00	60.00

With Flange, Nut and Bent Coupling.

Fig. 902.



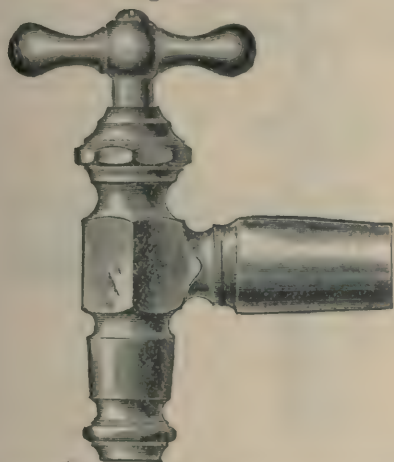
Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 902. Finished	35.00	40.00	54.00	74.00
“ 902. Nickel Plated	41.00	46.00	60.00	84.00

Fuller's Improved Bath Bibbs.

"T" HANDLE

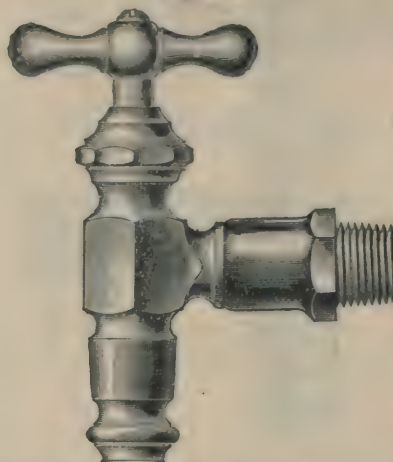
For Lead Pipe.

Fig. 903.



For Iron Pipe With Shoulder.

Fig. 904.

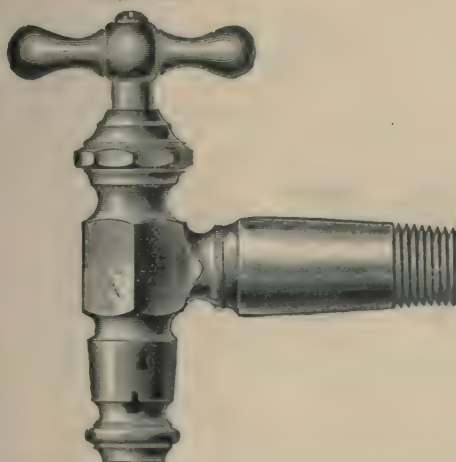


Size, Inches,	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Fig. 903. Finished, price per dozen	18.00	20.00	26.00
" " Nickel Plated, " "	22.00	24.00	32.00
" 904. Finished, " "	21.00	24.00	30.00
" " Nickel Plated, " "	25.00	28.00	36.00

For Iron Pipe.

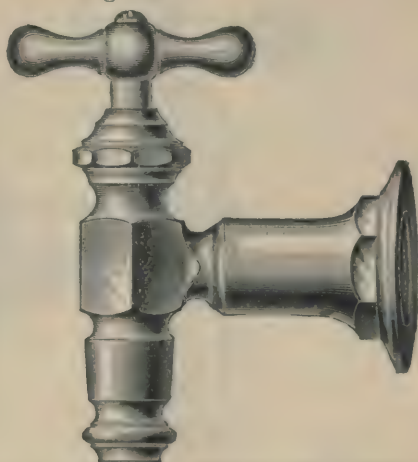
Without Shoulder.

Fig. 905.



With Flange and Inside Screw.

Fig. 906.



Size, Inches,	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Fig. 905. Finished, price per dozen	21.00	24.00	30.00
" " Nickel Plated, " "	25.00	28.00	36.00
" 906. Finished, " "	23.50	25.50	33.00
" " Nickel Plated, " "	29.50	31.50	39.00

Improved Fuller's Bath Bibbs, T Handle.

Fig. 907.—FOR IRON PIPE, WITH FLANGE AND OUTSIDE SCREW.

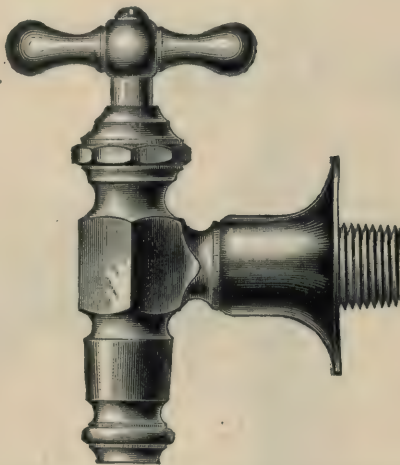
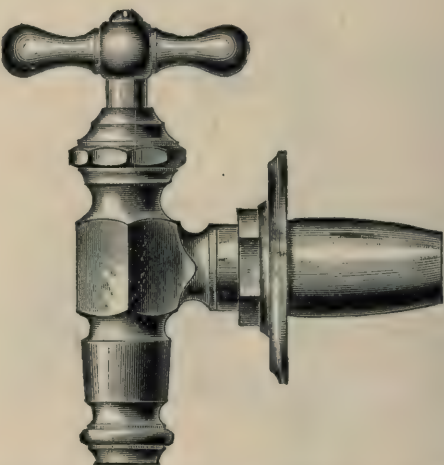
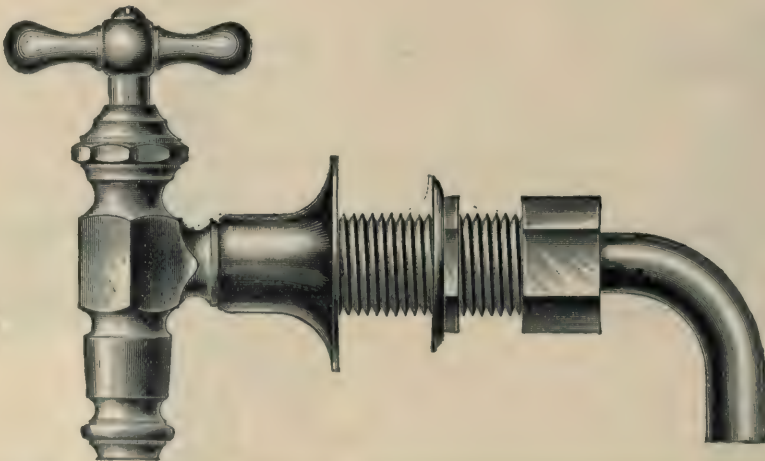


Fig. 908.—FOR LEAD PIPE, WITH FLANGE AND THIMBLE.



Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 907.	Finished	23.50	25.50	33.00
" "	Nickel Plated.....	29.50	31.50	39.00
" 908.	Finished	26.00	28.00	36.00
" "	Nickel Plated.....	32.00	34.00	42.00
Price per dozen				

Fig. 909.—WITH FLANGE, NUT AND BENT COUPLING.



Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 909.	Finished	35.00	40.00	54.00
" "	Nickel Plated	41.00	46.00	60.00
Price per dozen				

Fuller's Improved Bath Bibbs

With Fancy Lever Handle.

Fig. 910. FOR LEAD PIPE.

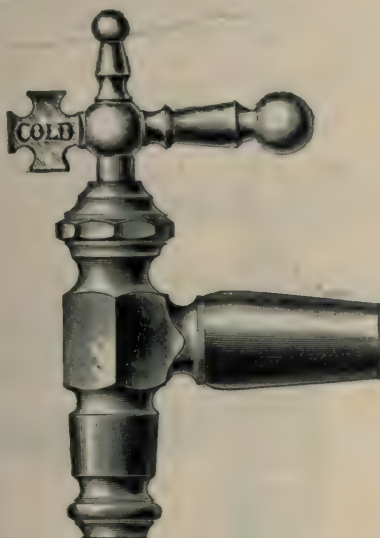
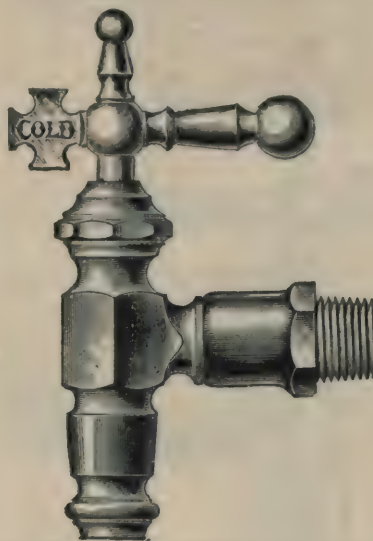


Fig. 911. FOR IRON PIPE WITH SHOULDER.



Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 910, Finished	price per dozen	21.00	23.00	33.00
" 910, Nickel Plated	" "	25.00	27.00	39.00
" 911, Finished	" "	24.00	27.00	37.00
" 911, Nickel Plated	" "	28.00	31.00	43.00

For Iron Pipe.

Fig. 912. WITHOUT SHOULDER.

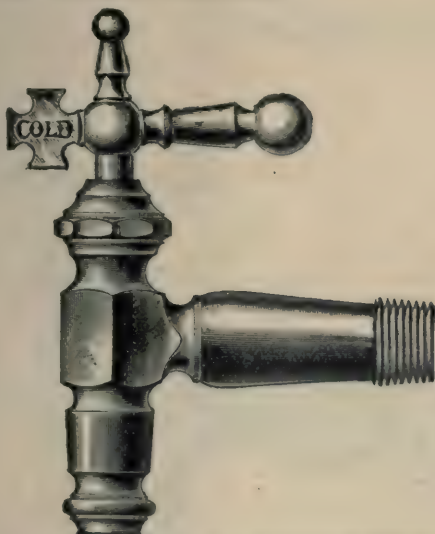
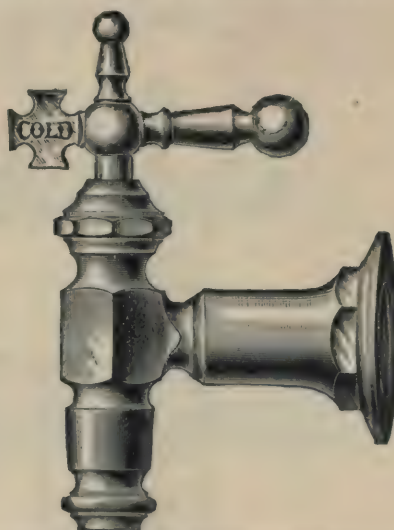


Fig. 913. WITH FLANGE AND INSIDE SCREW.



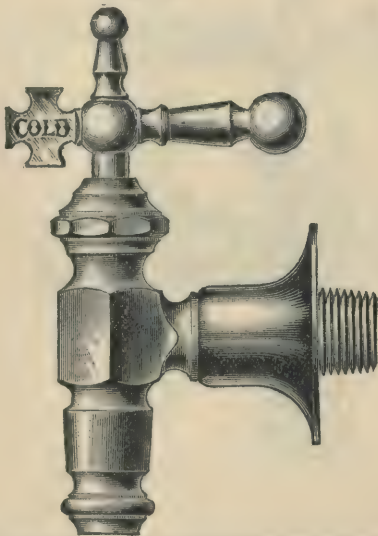
Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 912, Finished,	price per dozen	24.00	27.00	37.00
" 912, Nickel Plated	" "	28.00	31.00	43.00
" 913, Finished	" "	26.50	28.50	40.00
" 913, Nickel Plated	" "	32.50	34.50	46.00

Fuller's Improved Bath Bibbs

With Fancy Lever Handle.

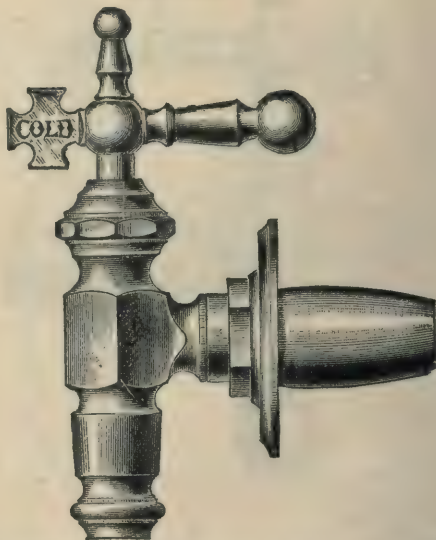
For Iron Pipe with Flange
and Outside Srew.

Fig. 914.



For Lead Pipe with Flange
and Thimble.

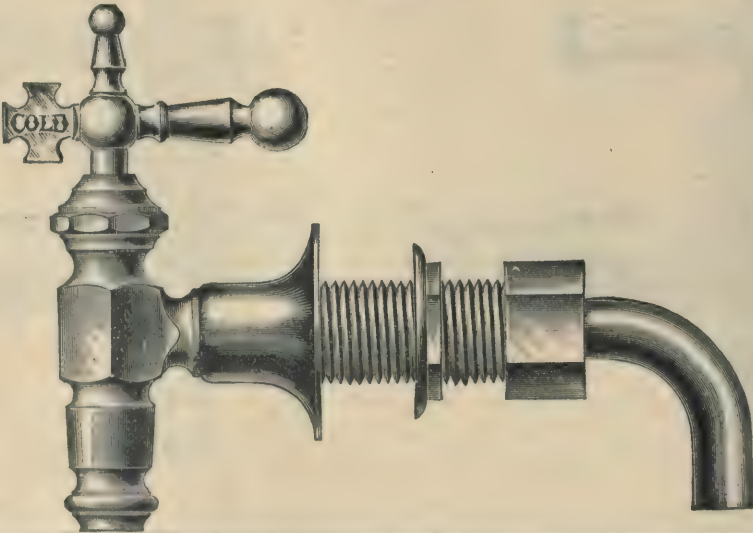
Fig. 915.



Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 914. Finished, price per dozen	26.50	28.50	40.00
" " Nickel Plated, " "	32.50	34.50	46.00
" 915. Finished, " "	29.00	31.00	43.00
" " Nickel Plated, " "	35.00	37.00	49.00

With Flange, Nut and Bent Coupling.

Fig. 916.



Size, Inches,	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 916. Finished, price per dozen	38.00	43.00	61.00
" " Nickel Plated, " "	44.00	49.00	67.00

Improved Fuller's Bibbs.

With Flange and Loose Thimble.

Fig. 886½.

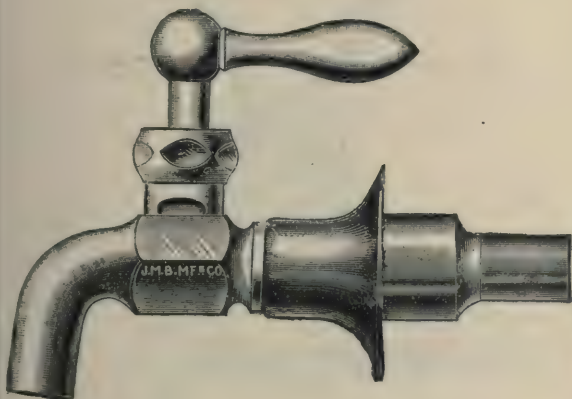


Fig. 893½.

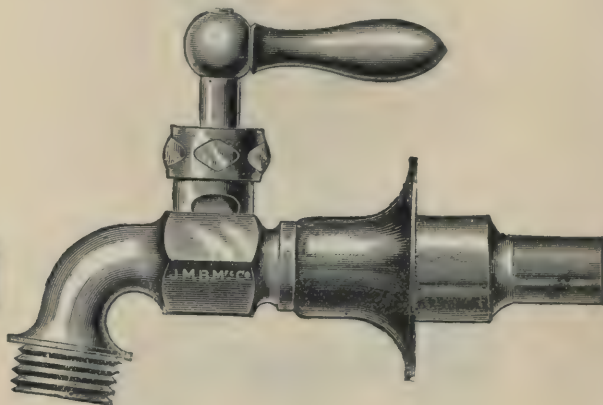


Fig. 901½.

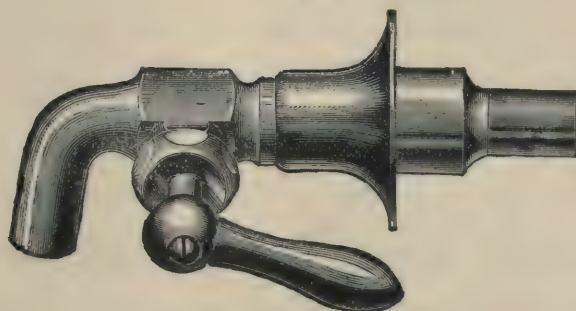


Fig. 908½.

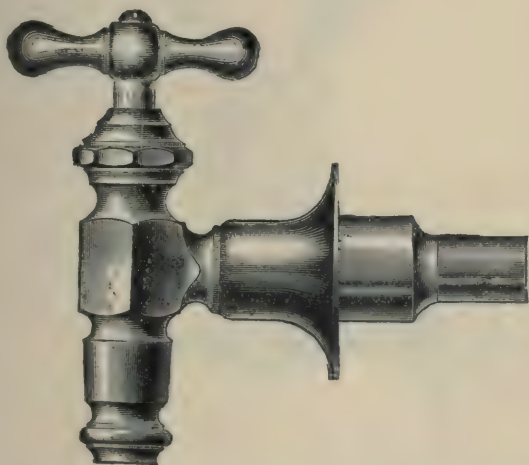


Fig. 915½.

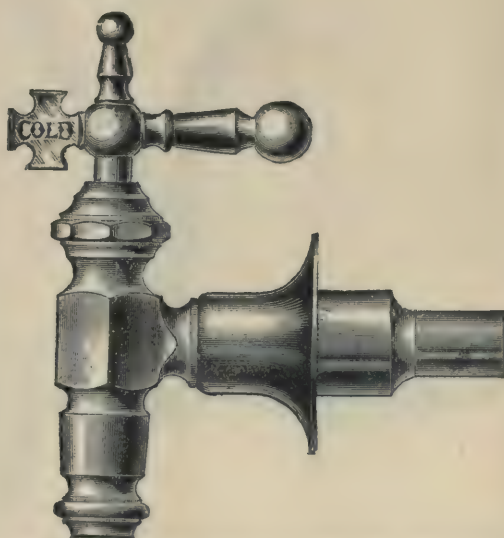
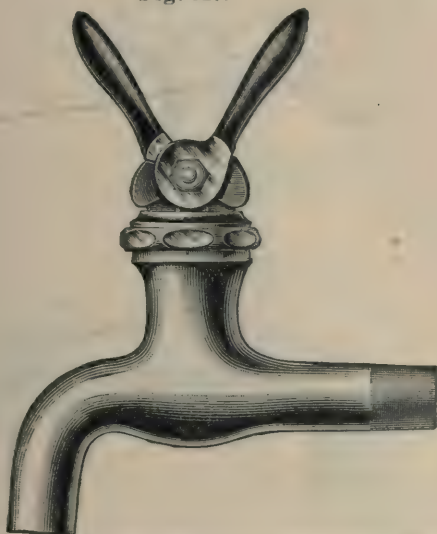


Fig. 886½	.....	same	List as	886.
" 893½	.....	"	"	893.
" 901½	.....	"	"	901.
" 908½	.....	"	"	908.
" 915½	.....	"	"	915.

Double Lever Self-Closing Bibbs.

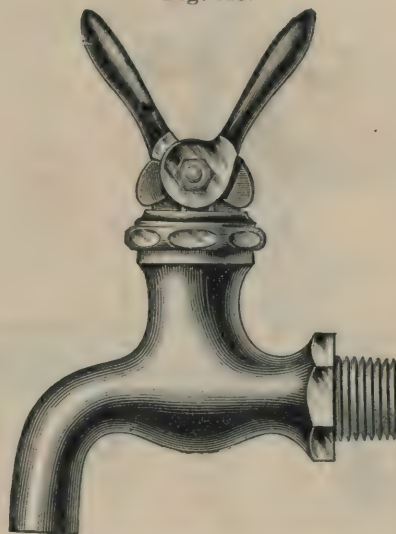
For Lead Pipe.

Fig. 917.



For Iron Pipe, with Shoulder.

Fig. 918.

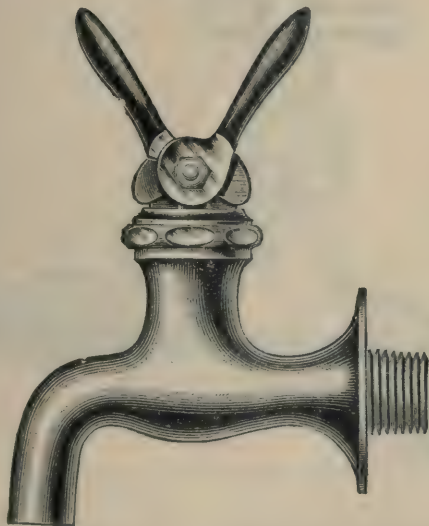


Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$
Fig. 917. Finished	Price per dozen.	24.00	27.00
" 917. Nickel Plated	" "	28.00	31.00
" 918. Finished	" "	25.00	28.00
" 918. Nickel Plated	" "	29.00	32.00

Double Lever Self-Closing Plain Bibbs.

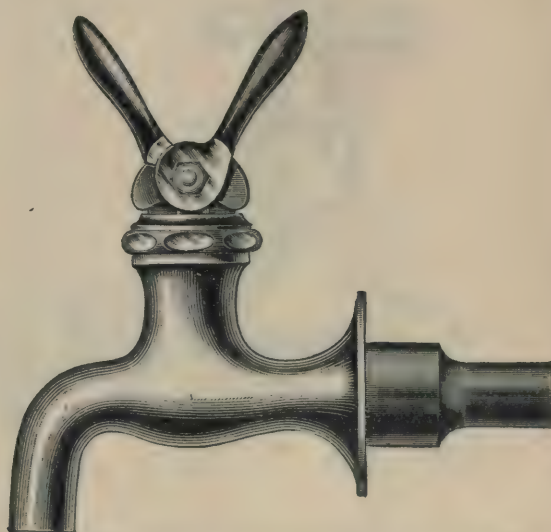
For Iron Pipe, with Flange and Outside Screw.

Fig. 919.



For Lead Pipe, with Flange and Thimble.

Fig. 920.



Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$
Fig. 919. Finished	Price per dozen	31.50	35.00
" 919. Nickel Plated	" "	35.50	39.00
" 920. Finished	" "	33.00	36.00
" 920. Nickel Plated	" "	37.00	40.00

Boston Pattern Self-Closing Plain Bibbs.

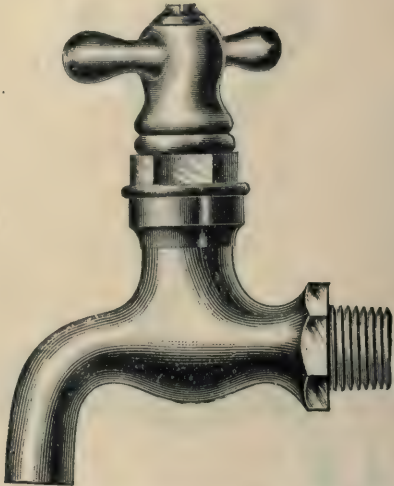
For Lead Pipe.

Fig. 921.



For Iron Pipe, with Shoulder.

Fig. 922.

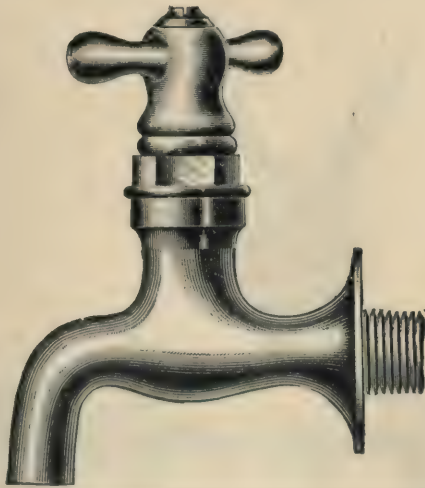


Size, Inches			$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 921.	Finished	Price per dozen	24.00	27.00	33.00
" 921.	Nickel Plated	" "	28.00	31.00	38.00
" 922.	Finished	" "	25.00	28.00	31.00
" 922.	Nickel Plated	" "	29.00	32.00	35.00

For Iron Pipe.

With Flange and Outside Screw.

Fig. 923.



With Flange and Thimble.

Fig. 924.



Size, Inches			$\frac{1}{2}$	$\frac{5}{8}$
Fig. 923.	Finished	Price per dozen	31.50	35.00
" 923.	Nickel Plated	" "	35.50	39.00
" 924.	Finished	" "	33.00	36.00
" 924.	Nickel Plated	" "	37.00	40.00

Self Closing Bibbs.

Telegraph Handle.

For Lead Pipe.

For Lead Pipe Flange and Thimble.

Fig. 925.

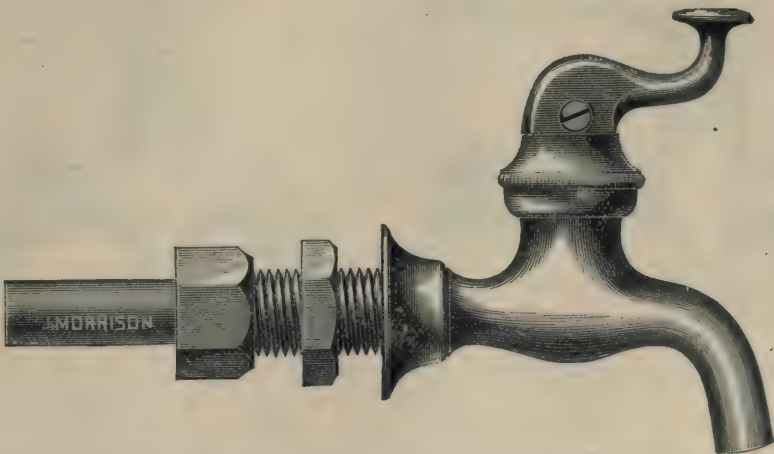
Fig. 926.



Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
Fig. 925, Finished	price per dozen 14.00	17.00	20.00
" 925, Nickel Plated	" " 16.50	19.50	22.50
" 926, Finished	" " 22.00	26.00	30.00
" 926, Nickel Plated	" " 24.50	28.50	32.50

With Flange Nut and Straight Coupling.

Fig. 927.

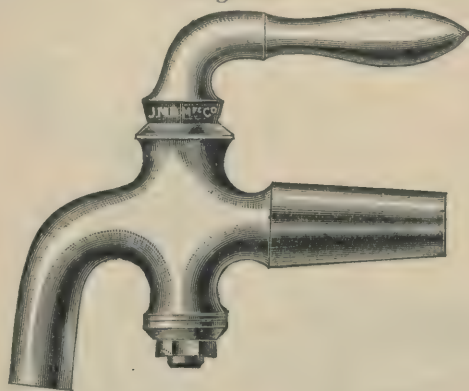


Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
Fig. 927, Finished	price per dozen 25.00	30.00	35.00
" 927, Nickel Plated	" " 27.50	32.50	37.50

Lever Handle Plain Bibbs.

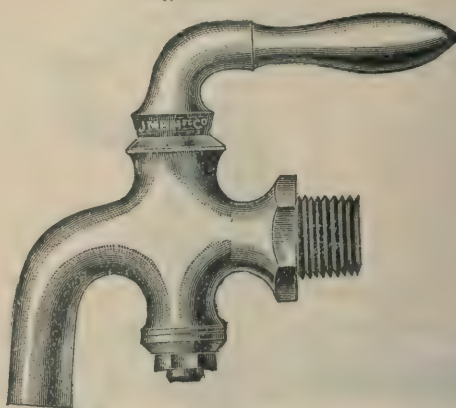
For Lead Pipe.

Fig. 928.



For Iron Pipe With Shoulder.

Fig. 929.

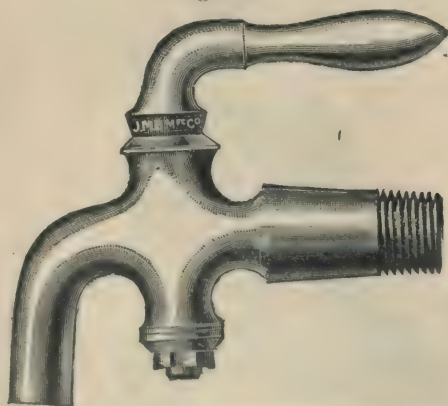


Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	2
Fig. 928. Rough, price per doz.	11.00	14.00	16.00	21.00	32.00	52.00	72.00	150.00	230.00	.....
" " Finished, " "	12.00	15.00	18.00	24.00	36.00	60.00	84.00	170.00	270.00	360.00
" " N.Plated, " "	14.00	17.50	20.50	26.50	39.00	.....	.....	.....	.....	.....
" 929. Rough, " "	12.00	15.00	17.00	23.00	35.00	56.00	78.00	160.00	.....	.....
" " Finished, " "	13.00	16.00	19.00	26.00	39.00	64.00	90.00	180.00	290.00	410.00
" " N.Plated, " "	15.00	18.50	21.50	28.50	42.00	.....	.....	.....	.....	.....

For Iron Pipe.

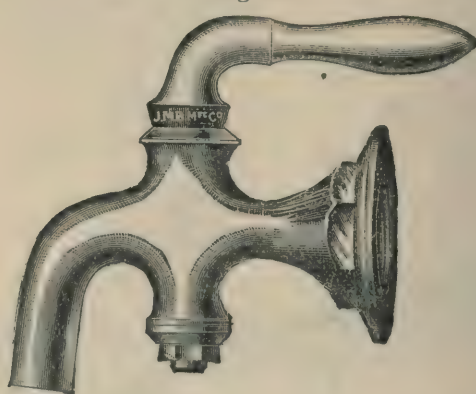
Without Shoulder.

Fig. 930.



With Flange and Inside Screw.

Fig. 931.



Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 930. Rough, price per doz.	12.00	15.00	17.00	23.00	35.00	56.00	78.00	160.00
" " Finished, " "	13.00	16.00	19.00	26.00	39.00	64.00	90.00	180.00
" " N.Plated, " "	15.00	18.50	21.50	28.50	42.00	.....	.....	.....
" 931. Rough, " "	.....	20.00	23.00	33.00	.....	.....	.....	.....
" " Finished, " "	.....	21.50	25.50	37.00	.....	.....	.....	.....
" " N.Plated, " "	.....	25.00	29.00	41.00	.....	.....	.....	.....

Revised Price List
OF
LEVER HANDLE PLAIN BIBBS.
Figures 928-934.

	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 928, Ball Hdle., Fin'd, per doz.	15 00	17.00	20.00	26.00	39.00	64.00	90.00	180.00
" " " N. Pltd, "	17.00	19.50	22.50	28.50	42.00	.....	.....	.....
Fig. 928, Cast Hdle., Rough, per doz.	11.00	14.00	16.00	21.00	32.00	52.00	72.00	150.00
" " " Fin'd, "	12.00	15.00	18 00	24.00	36.00	60.00	84.00	170.00
" " " N. Pltd., "	14.00	17 50	20.50	26.50	39.00	.....	.....	.....
Fig. 929, Ball Hdle., Fin'd, per doz.	17.00	19 00	22.00	28.00	42.00	.....	.....	.....
" " " N. Pltd., "	19 00	21.50	24.50	30.50	45.00	.....	.....	.....
" " Cast Hdle., Rough, "	13 00	16.00	18.00	23.00	35.00	56.00	78.00	160.00
" " " Fin'd, "	14 00	17.00	20.00	26.00	39.00	64.00	90.00	180.00
" " " N. Pltd., "	16.00	19.50	22.50	28.50	42.00	.....	.....	.....
Fig. 930, Ball Hdle., Fin'd, per doz.	17.00	19 00	22.00	28.00	42.00	.....	.....	.....
" " " N. Pltd., "	19 00	21.50	24.50	30.50	45.00	.....	.....	.....
" " Cast Hdle., Rough, "	13.00	16 00	18.00	23 00	35.00	56.00	78.00	160.00
" " " Fin'd, "	14.00	17.00	20.00	26.00	39.00	64.00	90.00	180.00
" " " N. Pltd., "	16.00	19 50	22.50	28.50	42.00	.....	.....	.....
Fig. 931, Ball Hdle., Fin'd, per doz.	.....	24 50	28.50	39.00	.....	.....	.....	.....
" " " N Pltd., "	.....	28.00	32.00	43.00	.....	.....	.....	.....
" " Cast Hdle., Fin'd, "	.....	22.50	26.50	37.00	.....	.....	.....	.....
" " " N. Pltd., "	.....	26.00	30 00	41.00	.....	.....	.....	.....
Fig. 932, Ball Hdle., Fin'd, "	.....	24.50	28.50	39.00	.....	.....	.....	.....
" " " N. Pltd., "	.....	28.00	32.00	43.00	.....	.....	.....	.....
" " Cast Hdle., Fin'd, "	.....	22.50	26.50	37.00	.....	.....	.....	.....
" " " N. Pltd, "	.....	26.00	30 00	41.00	.....	.....	.....	.....
Fig. 933, Ball Hdle., Fin'd., per doz.	.....	27.00	31 00	42.00	.....	.....	.....	.....
" " " N. Pltd., "	.....	30.50	34 50	46.00	.....	.....	.....	.....
" " Cast Hdle., Fin'd, "	.....	25.00	29.00	40.00	.....	.....	.....	.....
" " " N. Pltd., "	.....	28.50	32 50	44.00	.....	.....	.....	.....
Fig. 934, Ball Hdle., Fin'd, per doz.	.....	32.50	41.00	52.00	.....	.....	.....	.....
" " " N. Pltd., "	.....	36 00	44.50	56.00	.....	.....	.....	.....
" " Cast Hdle., Fin'd, per doz.	.....	30.50	39.00	50.00	.....	.....	.....	.....
" " " N. Pltd., "	.....	34.00	42.50	54 00	.....	.....	.....	.....

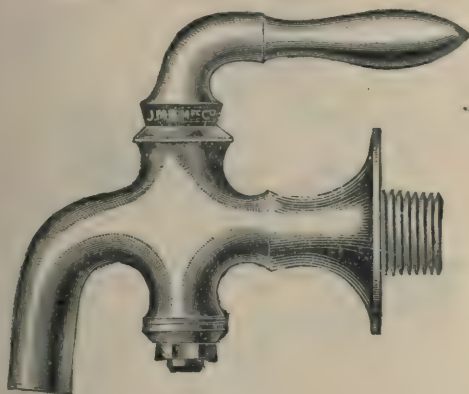
Revised Price List
OF
LEVER HANDLE HOSE BIBBS.
Figures 935-941.

	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 935, Ball Hdle., Fin'd, per doz.	17.00	19.00	22.00	28.00	42.00	.....	.....	.....
“ “ “ N. Pltd., “	19 00	21.50	24 50	30.50	45.00	.....	.....	.....
“ “ Cast Hdle., Rough, “	13 00	16.00	18 00	23.00	35.00	56.00	78.00	160.00
“ “ “ Fin'd, “	14.00	17.00	20.00	26.00	39.00	64.00	90.00	180.00
“ “ “ N. Pltd., “	16.00	19 50	22.50	28.50	42.00	.....	.....	.....
“ 936, Ball Hdle., Fin'd, “	21.00	24.00	30.00	45.00	.....	.....	.....
“ “ “ N. Pltd., “	23.50	26.50	32.50	48.00	.....	.....	.....
“ “ Cast Hdle., Rough, “	18.00	20.00	25.00	38.00	60.00	84.00	170.00
“ “ “ Fin'd, “	19.00	22.00	28 00	42.00	68.00	96.00	190.00
“ “ “ N. Pltd., “	21.50	24.50	30.50	45.00	.....	.....	.....
“ 937, Ball Hdle., Fin'd, “	21.00	24.00	30.00	45.00	.....	.....	.....
“ “ “ N. Pltd, “	23.50	26.50	32.50	48.00	.....	.....	.....
“ “ Cast Hdle., Rough, “	18.00	20.00	25 00	38 00	60 00	84.00	170.00
“ “ “ Fin'd, “	19.00	22.00	28.00	42.00	68.00	96.00	190.00
“ “ “ N. Pltd., “	21.50	24.50	30 50	45.00	.....	.....	.....
“ 938, Ball Hdle., Fin'd, “	26.00	30.50	41.00	.....	.....	.....	.....
“ “ “ N. Pltd., “	...	28.50	33.00	43.50	.....	.....	.....	.....
“ “ Cast Hdle., Fin'd, “	24 00	28 50	39 00	.....	.....	.....	.....
“ “ “ N. Pltd., “	26.50	31.00	41.50	.....	.....	.....	.....
“ 939, Ball Hdle., Fin'd, “	26.00	30 50	41.00	.....	.....	.....	.....
“ “ “ N. Pltd., “	28.50	33.00	43.50	.....	.....	.....	.....
“ “ Cast Hdle., Fin'd, “	24.00	28.50	39.00	.....	.....	.....	.....
“ “ “ N. Pltd., “	26.50	31.00	41 50	.....	.....	.....	.....
“ 940, Ball Hdle., Fin'd, “	29.00	33.00	44.00	.....	.....	.....	.....
“ “ “ N. Pltd., “	32.50	36.50	48.50	.....	.....	.....	.....
“ “ Cast Hdle, Fin'd, “	27.00	31.00	42.00	.....	.....	.....	.....
“ “ “ N. Pltd., “	29.50	33.50	44 50	.....	.....	.....	.....
“ 941, Ball Hdle., Fin'd, “	34.50	43 00	54 00	.....	.....	.....	.....
“ “ “ N. Pltd., “	38 00	46.50	58.00	.....	.....	.....	.....
“ “ Cast Hdle., Fin'd, “	32.50	41.00	52.00	.....	.....	.....	.....
“ “ “ N. Pltd., “	36.00	44.50	56 00	.....	.....	.....	.....

Lever Handle Plain Bibbs.

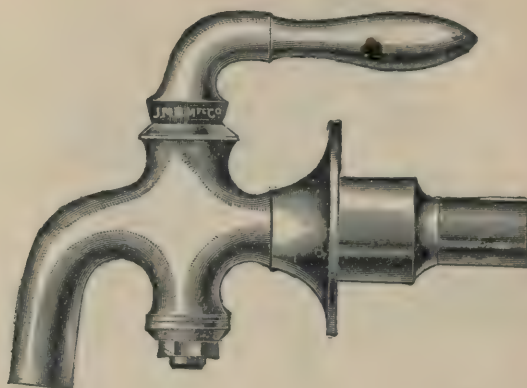
**For Iron Pipe with Flange
and Outside Screw.**

Fig. 932.



**For Lead Pipe with Flange
and Thimble.**

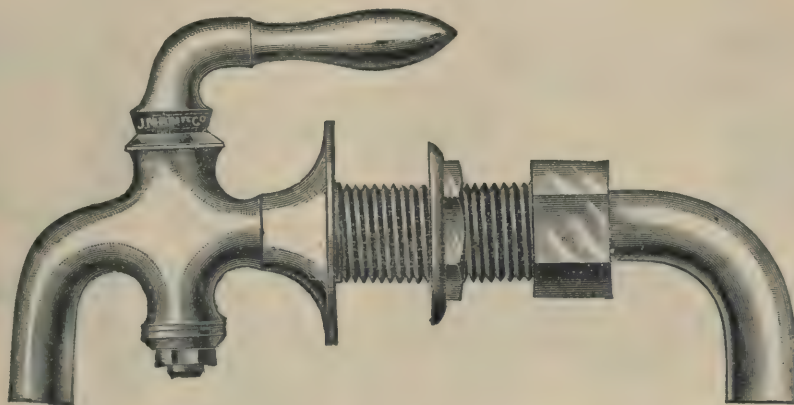
Fig. 933.



Size, Inches		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Fig. 932, Finished	price per dozen	21.50	25.50	37.00
" 932, Nickel Plated	" "	25.00	29.00	41.00
" 933, Finished	" "	24.00	28.00	40.00
" 933, Nickel Plated	" "	27.50	31.50	44.00

With Flange Nut and Bent Coupling.

Fig. 934.

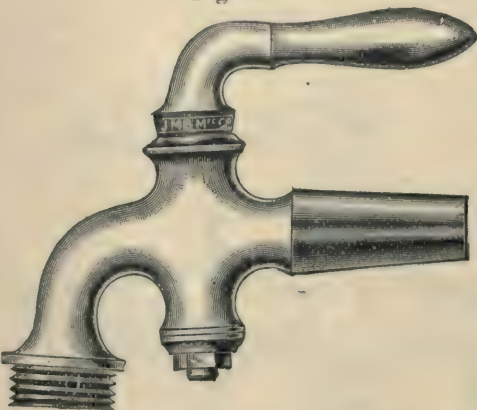


Size, Inches		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Finished	price per dozen	29.50	38.00	50.00
Nickel Plated	" "	33.00	41.50	54.00

Lever Handle Hose Bibbs.

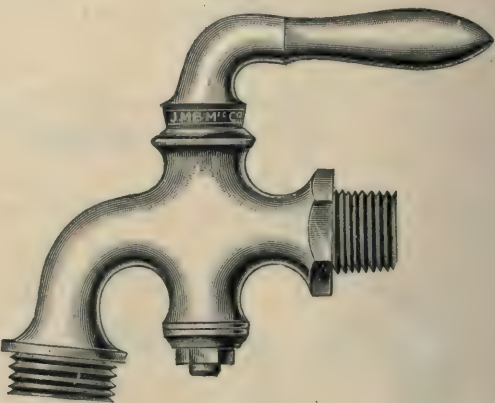
For Lead Pipe.

Fig. 935.



For Iron Pipe, with Shoulder.

Fig. 936.

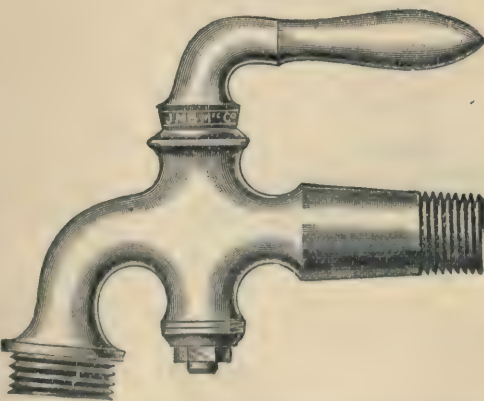


Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 935. Rough. Price per doz.	12.00	15.00	17.00	23.00	35.00	56.00	78.00	160.00	.....	.....
" 935. Finished. " "	13.00	16.00	19.00	26.00	39.00	64.00	90.00	180.00	290.00	410.00
" 935. N.Plated. " "	15.00	18.50	21.50	28.50	42.00	.....	.....	.....	.....	.....
" 936. Rough. " "	13.00	16.00	18.00	25.00	38.00	60.00	84.00	170.00	.....	.....
" 936. Finished. " "	14.00	17.00	20.00	28.00	42.00	68.00	96.00	190.00	310.00	460.00
" 936. N.Plated. " "	16.00	19.50	22.50	30.50	45.00	.....	.....	.....	.....	.....

For Iron Pipe.

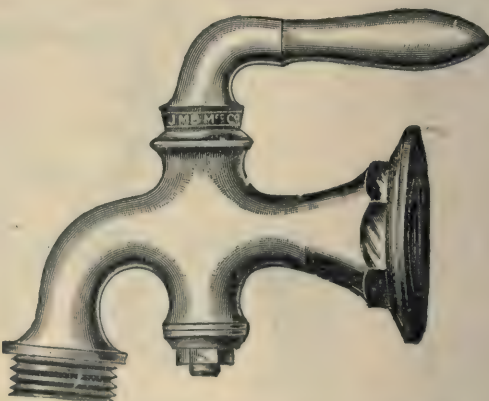
Without Shoulder.

Fig. 937.



With Flange and Inside Screw.

Fig. 938.

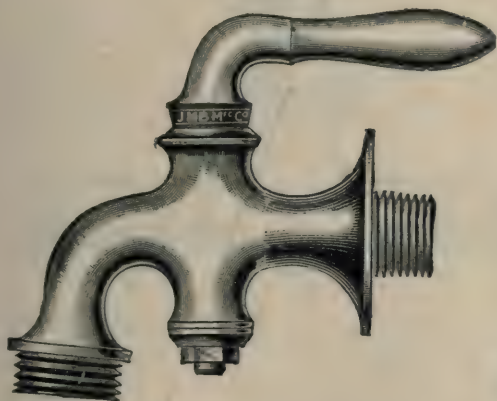


Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 937. Finished. Price per dozen	14.00	17.00	20.00	28.00	42.00	68.00	96.00	190.00
" 937. N. Plated. " "	16.00	19.50	22.50	30.50	45.00	.....	.....	.....
" 938. Finished. " "	.....	22.00	26.50	39.00	.....	.....	.....	.....
" 938. N. Plated. " "	.....	26.00	30.00	43.00	.....	.....	.....	.....

Lever Handle Hose Bibbs.

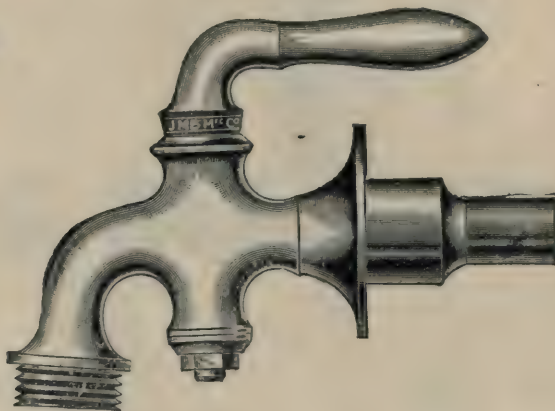
For Iron Pipe, with Flange
and Outside Screw.

Fig. 939.



For Lead Pipe, with Flange
and Thimble.

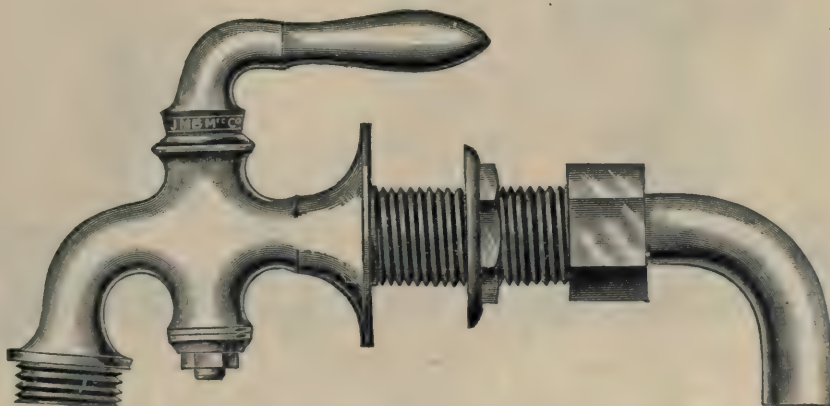
Fig. 940.



Size, Inches.....		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Fig. 939 Finished	Price per Dozen	22.00	26.50	39.00
" Nickel Plated	" "	26.00	30.00	43.00
Fig. 940 Finished	" "	25.00	29.00	42.00
" Nickel Plated	" "	28.50	32.50	46.00

With Flange Nut and Bent Coupling.

Fig. 941.



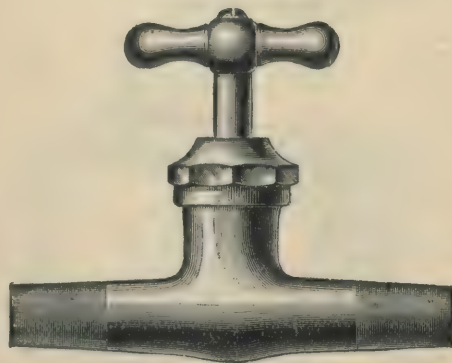
Size, Inches.....		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Finished.....	Price per dozen	30.50	39.00	52.00
Nickel Plated.....	" "	34.00	42.50	56.00

Compression Stops.

FOR LEAD PIPE.

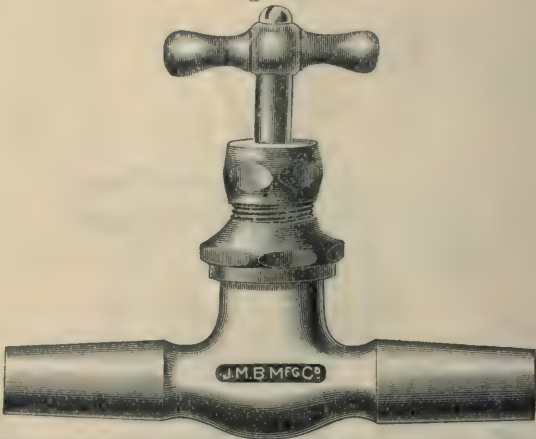
Without Stuffing Box.

Fig. 942.



With Stuffing Box.

Fig. 943.



Size, Inches,			$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 945.	Rough,	price per dozen	9.50	10.50	12.00	18.50	32.00
" "	Finished,	" "	10.00	11.00	13.00	19.50	36.00
" "	Nickle Plated,	" "	12.00	13.50	15.50	22.00	39.00
" 946.	Rough,	" "	11.50	12.50	14.00	21.50	36.00
" "	Finished,	" "	12.00	13.00	15.00	22.50	40.00
" "	Nickle Plated,	" "	14.00	15.50	17.50	25.00	43.00

FOR IRON PIPE.

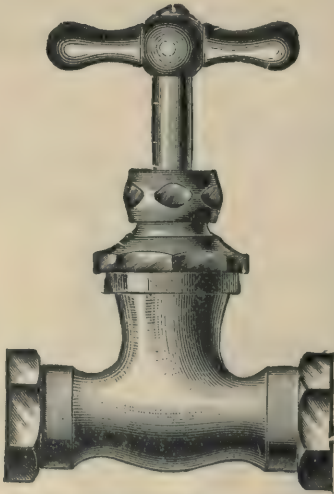
Without Stuffing Box.

Fig. 944.



With Stuffing Box.

Fig. 945.



Size, Inches,	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 947. Rough, price per dozen	10.50	11.50	14.00	20.50	35.00
“ “ Finished, “ “	11.00	12.00	15.00	21.50	39.00
“ “ Nickle Plated, “ “	13.00	14.50	17.50	24.00	42.00
“ 948. Rough, “ “	12.50	13.50	16.00	23.50	39.00
“ “ Finished, “ “	13.00	14.00	17.00	24.50	43.00
“ “ Nickle Plated, “ “	15.00	16.50	19.50	27.00	46.00

Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Fig. 944. Rough, . . . per dozen	12.50	13.50	15.00	23.00	36.00	52.00	90.00
" " Finished, . . . "	13.00	14.00	16.00	24.00	40.00	60.00	102.00
" " Nickel Plated, . . . "	15.00	16.50	18.50	26.50	43.00	.....	.....
" 945. Rough, . . . "	14.50	15.50	17.00	26.00	40.00	.....	.....
" " Finished, . . . "	15.00	16.00	18.00	27.00	44.00	.....	.....
" " Nickel Plated, . . . "	17.00	18.50	20.50	29.50	47.00	.....	.....

Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 946. Rough, . . . per dozen	11.50	12.50	14.00	22.00	34.00
" " Finished, . . . "	12.00	13.00	15.00	23.00	38.00
" " Nickel Plated, . . . "	14.00	15.50	17.50	25.50	41.00
" 947. Rough, . . . "	13.50	14.50	16.00	25.00	38.00
" " Finished, . . . "	14.00	15.00	17.00	26.00	42.00
" " Nickel Plated, . . . "	16.00	17.50	19.50	28.50	45.00

Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 948. Rough, . . . per dozen	11.50	12.50	14.00	22.00	34.00
" " Finished, . . . "	12.00	13.00	15.00	23.00	38.00
" " Nickel Plated, . . . "	14.00	15.50	17.50	25.50	41.00
" 949. Rough, . . . "	13.50	14.50	16.00	25.00	38.00
" " Finished, . . . "	14.00	15.00	17.00	26.00	42.00
" " Nickel Plated, . . . "	16.00	17.50	19.50	28.50	45.00

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3.50
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7.50
1.50
4.00

Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 950. Rough, . . . per dozen	12.50	13.50	15.00	23.00	36.00
" " Finished, . . . "	13.00	14.00	16.00	24.00	40.00
" " Nickel Plated, . . . "	15.00	16.50	18.50	26.50	43.00
" 951. Rough, . . . "	14.50	15.50	17.00	26.00	40.00
" " Finished, . . . "	15.00	16.00	18.00	27.00	44.00
" " Nickel Plated, . . . "	17.00	18.50	20.50	29.50	47.00

Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 952. Finished, . . . per dozen	18.00	20.00	28.00	44.00
" " Nickel Plated, . . . "	20.50	22.50	30.50	47.00
" 953. Finished, . . . "	20.00	22.00	31.00	48.00
" " Nickel Plated, . . . "	22.50	24.50	33.50	51.00

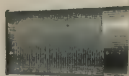
Note.—3 Handles to Each Dozen Stops.

Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 958. Rough, . . . per dozen	14.50	16.50	19.00	29.00	42.00
" " Finished, . . . "	15.00	17.00	20.00	30.00	46.00

Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 961. Rough, . . . per dozen	15.00	18.00	25.50	42.00
" " Finished, . . . "	16.50	19.50	27.00	44.00
" " Nickel Plated, . . . "	19.00	22.00	29.50	47.00
" 962. Rough, . . . "	17.00	20.00	27.50	46.00
" " Finished, . . . "	18.50	21.50	29.00	48.00
" " Nickel Plated, . . . "	21.00	24.00	31.50	51.00

1
33.50
37.50
40.00
37.50
41.50
44.00

Witho



Size, Inches,

Fig. 945. Rou
 " " Fini
 " " Nick
 " 946. Rou
 " " Fini
 " " Nick

Wit

Size, Inches

Fig. 947. l
 " " l
 " " s
 " 948. l
 " " Finis
 " " Nickle Plated,

Compression Stops.

For Lead and Iron Pipe with Inside Screw.

Fig. 946.—WITHOUT STUFFING BOX.

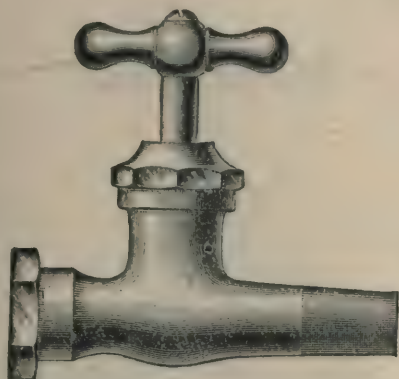
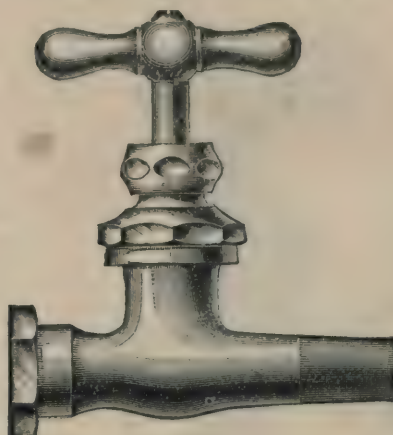


Fig. 947.—WITH STUFFING BOX.



Size, Inches				$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 946.	Rough	price per dozen		10.00	11.00	13.00	19.50	33.50
" 946.	Finished	" "		10.50	11.50	14.00	20.50	37.50
" 946.	Nickel Plated	" "		12.50	14.00	16.50	23.00	40.00
" 947.	Rough	" "		12.00	13.00	15.00	22.50	37.50
" 947.	Finished	" "		12.50	13.50	16.00	23.50	41.50
" 947.	Nickel Plated	" "		14.50	16.00	18.50	26.00	44.00

For Lead and Iron Pipe with Outside Screw.

Fig. 948.—WITHOUT STUFFING BOX.

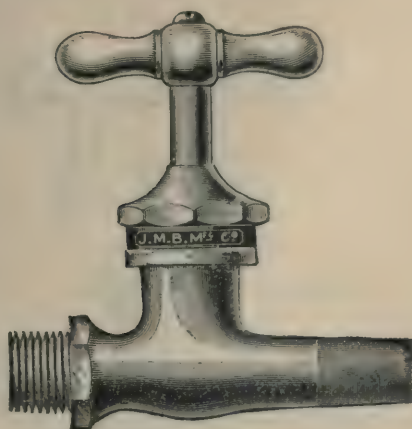
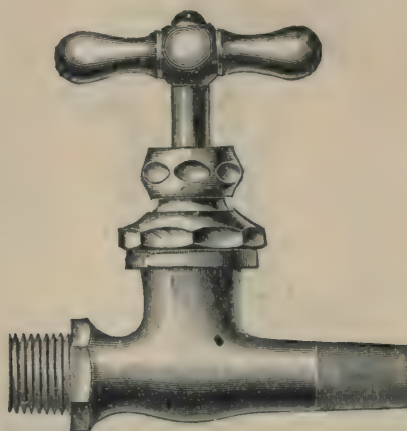


Fig. 949.—WITH STUFFING BOX.



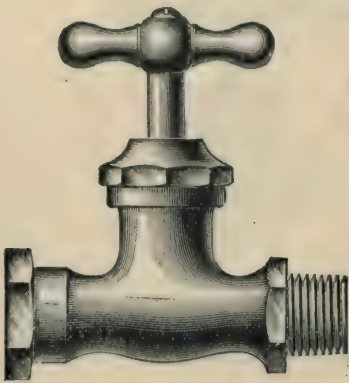
Size, Inches				$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 948.	Rough	price per dozen		10.00	11.00	13.00	19.50	33.50
" 948.	Finished	" "		10.50	11.50	14.00	20.50	37.50
" 948.	Nickel Plated	" "		12.50	14.00	16.50	23.00	40.00
" 949.	Rough	" "		12.00	13.00	15.00	22.50	37.50
" 949.	Finished	" "		12.50	13.50	16.00	23.50	41.50
" 949.	Nickel Plated	" "		14.50	16.00	18.50	26.00	44.00

Compression Stops.

For Iron Pipe with Inside and Outside Screw.

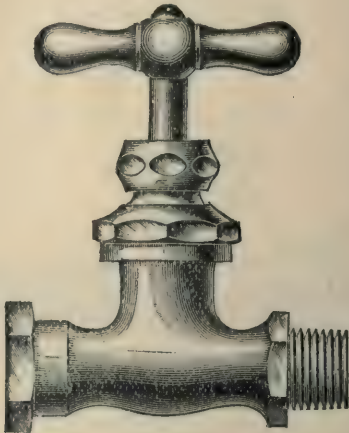
WITHOUT STUFFING BOX.

Fig. 950.



WITH STUFFING BOX.

Fig. 951.

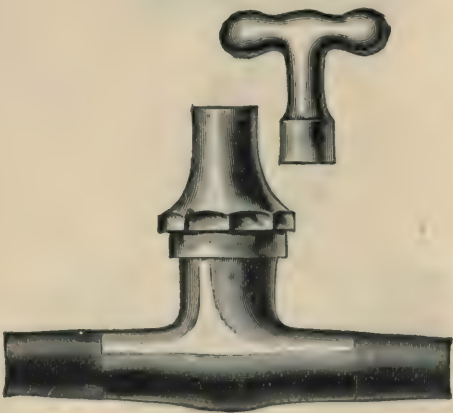


Size, Inches				$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 950.	Rough.....	price per dozen		10.50	11.50	14.00	20.50	35.00
" 950.	Finished.....	" "		11 00	12.00	15.00	21.50	39.00
" 950.	Nickel Plated.....	" "		13 00	14.50	17.50	24.00	42.00
" 951.	Rough.....	" "		12.50	13.50	16.00	23.50	39.00
" 951.	Finished.....	" "		13.00	14.00	17.00	24.50	43.00
" 951.	Nickel Plated.....	" "		15.00	16.50	19.50	27.00	46.00

With Loose Key Handle.

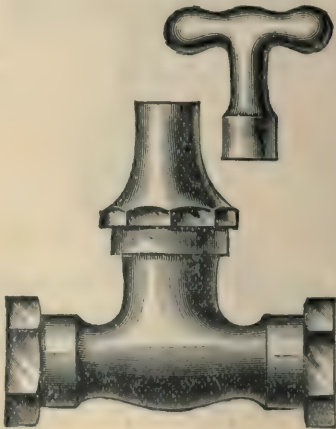
FOR LEAD PIPE.

Fig. 952.



FOR IRON PIPE.

Fig. 953.



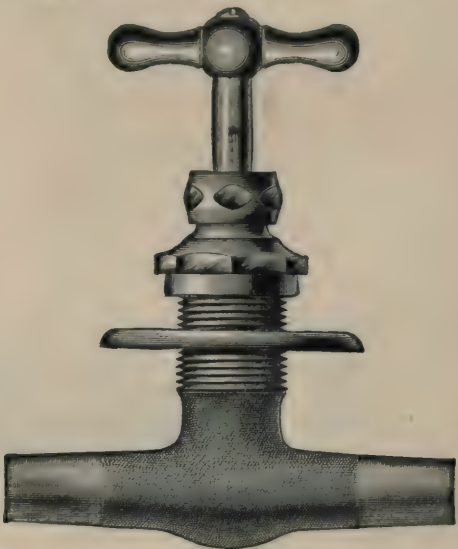
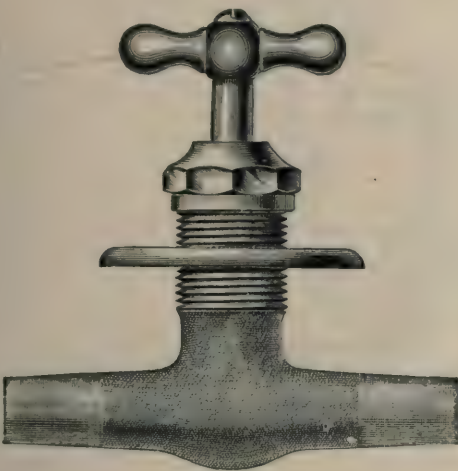
Size, Inches				$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Fig. 952.	Finished.....	price per dozen		15.00	17.00	25.50
" 952.	Nickel Plated	" "		17.50	19.50	28.00
" 953.	Finished.....	" "		16.00	19.00	27.50
" 953.	Nickel Plated.....	" "		18.50	25.50	30.00

Compression Stops.

For Lead Pipe—With Finished Flange and Handle.

Fig. 954.—WITHOUT STUFFING BOX.

Fig. 955.—WITH STUFFING BOX.

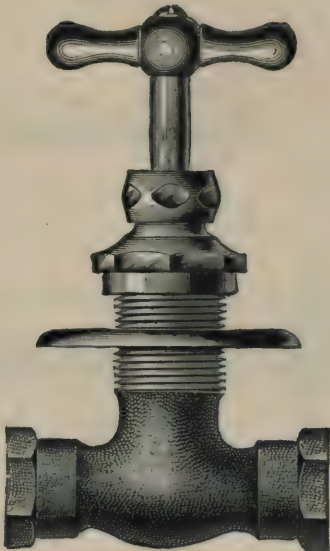
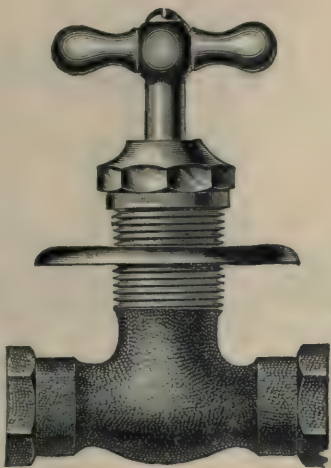


Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 954, Finished.....price per dozen	22.00	26.50	36.00
" 954, Nickel Plated....." "	24.50	29.00	38.50
" 955, Finished....." "	24.00	28.50	39.00
" 955, Nickel Plated....." "	26.50	31.00	41.50

For Iron Pipe—With Finished Flange and Handle.

Fig. 956.—WITHOUT STUFFING BOX.

Fig. 957.—WITH STUFFING BOX.

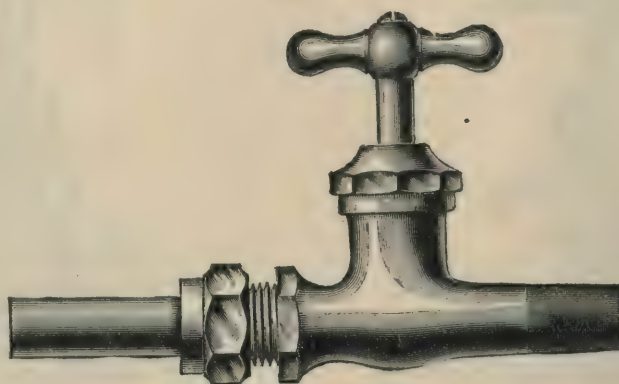


Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 956, Finished.....price per dozen	23.00	27.50	38.00
" 956, Nickel Plated....." "	25.50	30.00	40.50
" 957, Finished....." "	25.00	29.50	41.00
" 957, Nickel Plated....." "	27.50	32.00	43.50

Compression Stops.

For Lead Pipe, with Coupling.

Fig. 958.

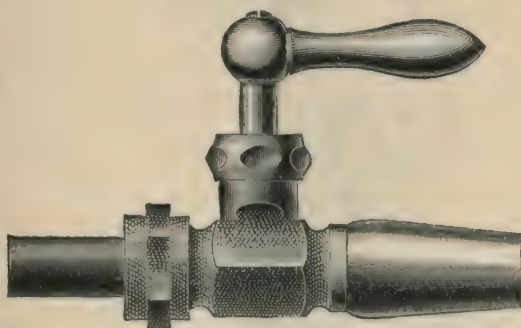


Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough..... price per dozen	15.50	18.00	26.50	42.00
Finished	16.00	19.00	27.50	46.00
Nickel Plated.....	19.00	22.00	30.50	49.50

Fuller's Improved Stops.

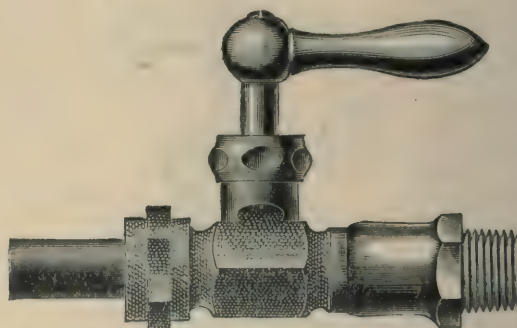
For Lead Pipe.

Fig. 959.



For Lead and Iron Pipe.

Fig. 960.



Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 959, Rough..... price per dozen	18.00	21.00	25.00	36.00
" 959, Finished..... "	20.00	24.00	28.00	40.00
" 959, Nickel Plated..... "	25.00	30.00	34.00	50.00
" 960, Rough..... "	18.50	22.00	26.00	37.50
" 960, Finished..... "	20.50	25.00	29.00	41.50
" 960, Nickel Plated..... "	25.50	31.00	35.00	51.50

Compression Stop and Waste.

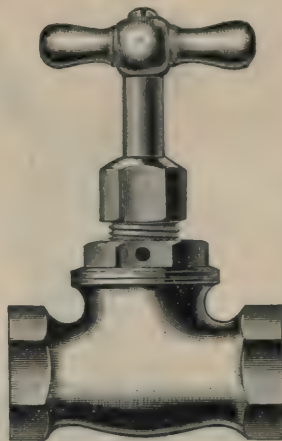
For Lead Pipe.

Fig. 961.



For Iron Pipe.

Fig. 962.

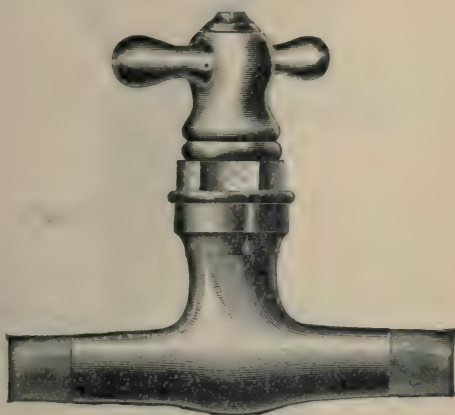


Size, Inches.....				$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
Fig. 961.	Rough.....	Price per dozen		14.00	17.00	24.00	42.00
" "	Finished	" "		15.50	18.50	25.50	44.00
" "	Nickel Plated.....	" "		18.00	21.00	28.00	47.00
" 962.	Rough	" "		15.00	19.00	26.00	45.00
" "	Finished	" "		16.50	20.50	27.50	47.00
" "	Nickel Plated.....	" "		19.00	23.00	30.00	50.00

Boston Pattern Self-Closing Compression Stops.

For Lead Pipe.

Fig. 963.



For Iron Pipe.

Fig. 964.

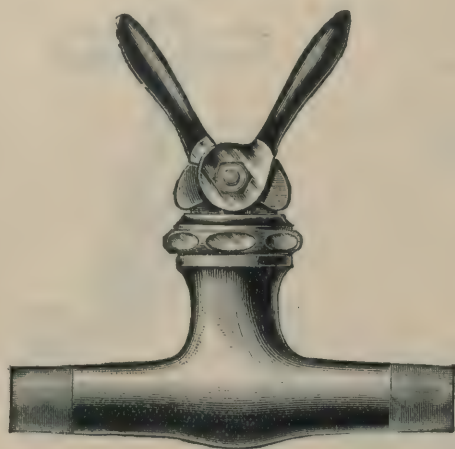


Size, Inches.....				$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Fig. 963.	Finished	Price per doz.		24.00	27.00	33.00
" "	Nickel Plated	" "		28.00	31.00	38.00
" 964.	Finished	" "		32.00	35.00	41.00
" "	Nickel Plated	" "		36.00	39.00	46.00

Double Lever Self-Closing Compression Stops

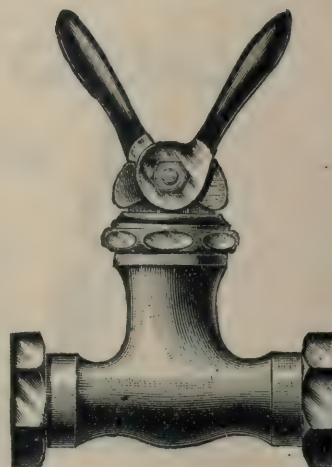
For Lead Pipe

Fig. 965.



For Iron Pipe

Fig. 966.



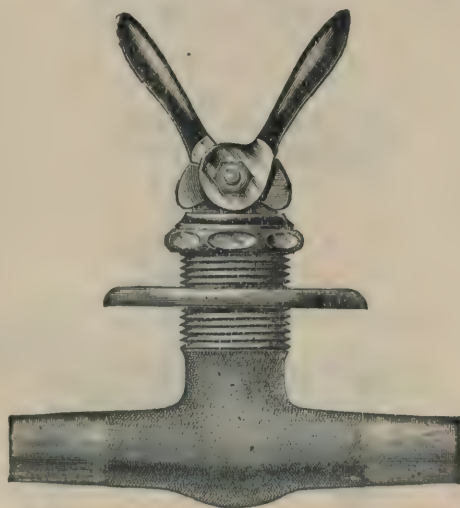
Size, Inches

			$\frac{1}{2}$	$\frac{5}{8}$
Fig. 965.	Finished	Price, per Dozen	24.00	27.00
" "	Nickel Plated.	" "	28.00	31.00
Fig. 966.	Finished	" "	28.00	33.00
" "	Nickel Plated	" "	32.00	37.00

With Finished Flange and Handle.

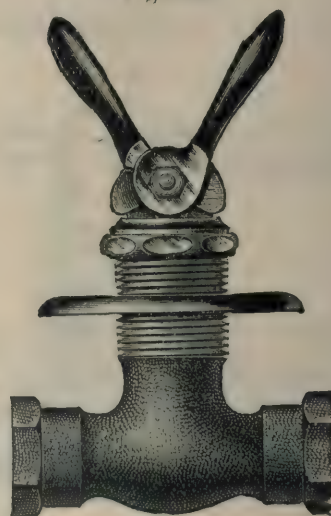
For Lead Pipe

Fig. 967.



For Iron Pipe

Fig. 968.



Size, Inches

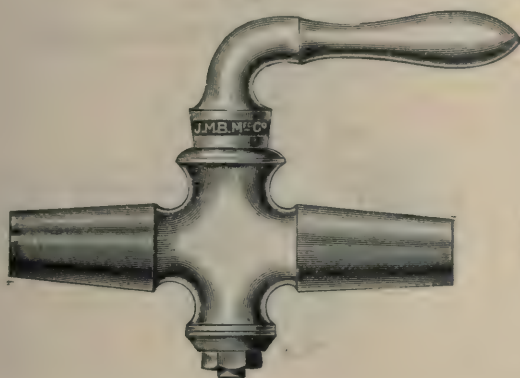
			$\frac{1}{2}$	$\frac{5}{8}$
Fig. 967.	Finished	Price, per Dozen	35.00	41.00
" 967.	Nickel Plated	" "	39.00	45.00
" 968.	Finished,	" "	40.00	46.00
" 968.	Nickel Plated,	" "	44.00	50.00

Finished Lever Handle Stops and Stop and Wastes.

For Lead Pipe.

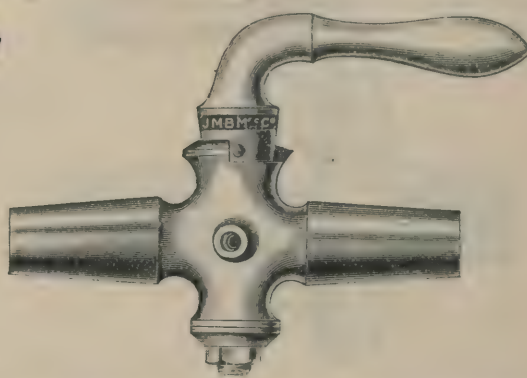
L. H. Stop.

Fig. 969.



L. H. Stop and Waste.

Fig. 970.

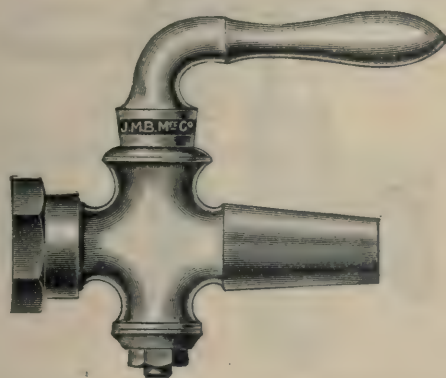


Size, Inches.			$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Fig. 969. Finished,	price per dozen		12.50	15.50	18.50	25.00	37.00	62.00
" " Nickel Plated,	" "		14.50	18.00	21.00	27.50	40.00	.....
Fig. 970. Finished,	" "		14.00	17.00	20.00	27.00	40.00	.....
" " Nickel Plated,	" "		16.00	19.50	22.50	29.50	43.00	.....

For Lead and Iron Pipe.

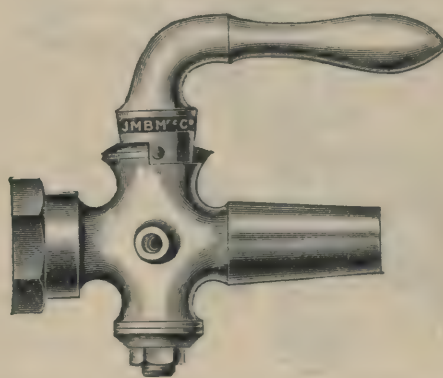
L. H. Stop.

Fig. 971.



L. H. Stop and Waste.

Fig. 972.



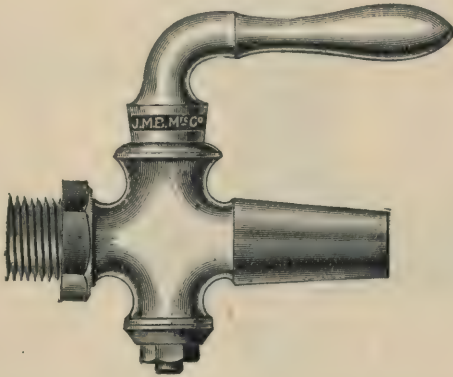
Size, Inches.			$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 971. Finished,	price per dozen		13.00	16.00	19.50	26.00	38.50
" " Nickel Plated,	" "		15.00	18.50	22.00	28.50	41.50
" 972. Finished,	" "		14.50	17.50	21.00	28.00	41.50
" " Nickel Plated,	" "		16.50	20.00	23.00	30.50	44.50

Finished Lever Handle Stops and Stop and Wastes.

For Lead and Iron Pipe Outside Screw.

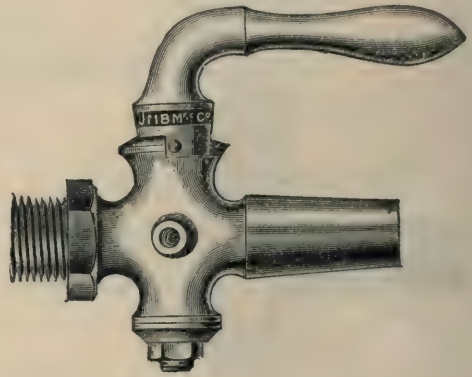
L. H. Stop.

Fig. 973.



L. H. Stop and Waste.

Fig. 974.

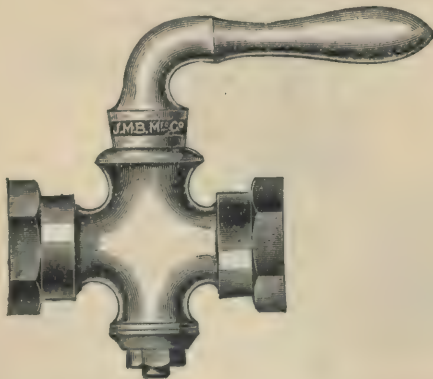


Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 973. Finished, . price per dozen	13.00	16.00	19.50	26.00	38.50
" " Nickel Plated, " "	15.00	18.50	22.00	28.50	41.50
" 974. Finished, . " "	14.50	17.50	21.00	28.00	41.50
" " Nickel Plated, " "	16.50	20.00	23.80	30.50	44.50

For Iron Pipe.

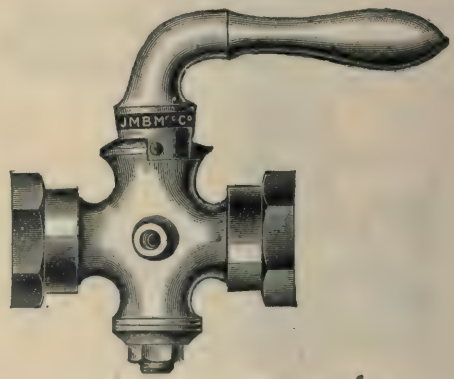
L. H. Stop.

Fig. 975.



L. H. Stop and Waste.

Fig. 976.



Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 975. Finished, . price per dozen	13.50	16.50	20.50	27.00	40.00
" " Nickel Plated, " "	15.50	19.00	23.00	29.50	43.00
" 976. Finished, . " "	15.00	18.00	22.00	29.00	43.00
" " Nickel Plated, " "	17.00	20.50	24.50	31.50	46.00

Finished Round Way Lever Handle Stops and Stop and Waste.

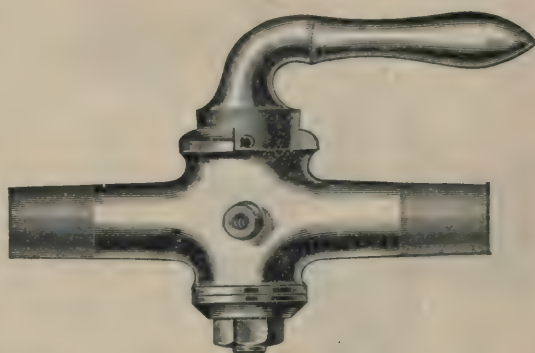
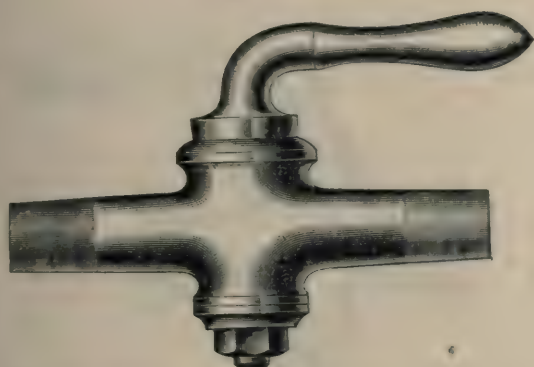
For Lead Pipe.

Stop

Fig. 977.

Stop and Waste

Fig. 978.



Size, Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 977. Finished	price per dozen	19.50	21.50	25.00	33.00	55.00
" Nickel Plated	" "	22.00	24.50	28.00	36.00	59.00
Fig. 978. Finished	" "	20.50	22.50	26.00	34.50	57.00
" Nickel Plated	" "	23.00	25.50	29.00	37.00	61.00

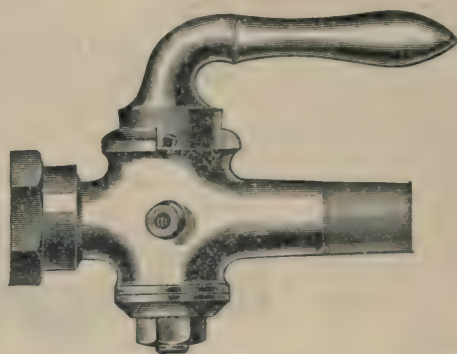
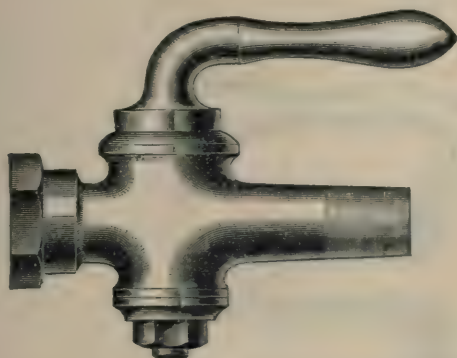
For Lead and Iron Pipe.

Stop

Fig. 979.

Stop and Waste

Fig. 980.



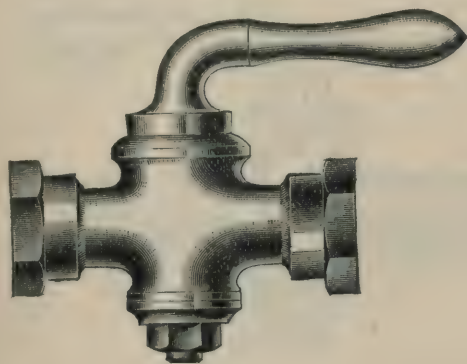
Size, Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 979. Finished	price per dozen	20.00	22.00	26.00	34.00	56.50
" Nickel Plated	" "	22.50	24.50	29.00	37.50	60.50
Fig. 980. Finished	" "	21.00	23.00	27.00	35.50	58.50
" Nickel Plated	" "	23.50	25.50	30.00	39.00	62.50

Finished Roundway Lever Handle Stops and Stop and Waste.

For Iron Pipe.

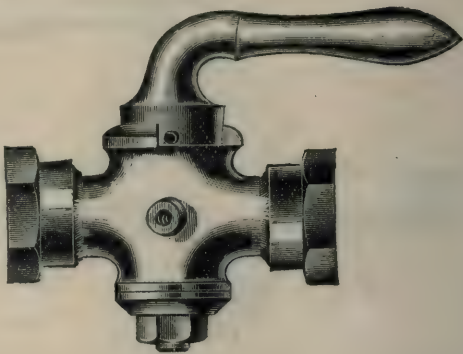
Stop.

Fig. 981.



Stop and Waste.

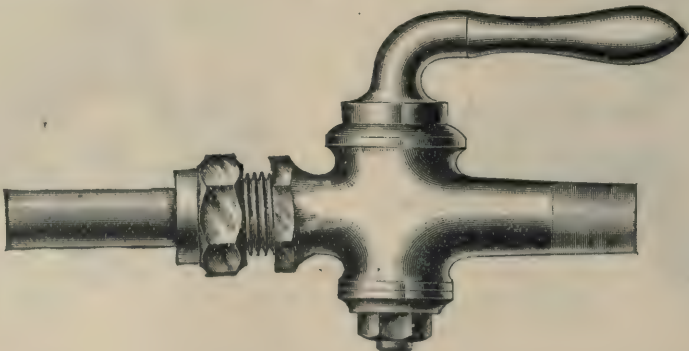
Fig. 982.



Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 981. Finished.....Price per dozen	20.50	22.50	27.00	35.00	58.00
“ 981. Nickel Plated	23.00	25.00	30.00	38.50	62.00
“ 982. Finished	21.50	23.50	28.00	36.50	60.00
“ 982. Nickel Plated	24.00	26.00	31.00	40.00	64.00

Finished Roundway Lever Handle Stop with Plain Coupling. For Lead Pipe.

Fig. 983.



Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 983. Finished.....Price per dozen	28.00	32.50	43.00	68.00
“ 983. Nickel Plated	31.00	36.00	47.00	73.00

Revised Price List of

282¼

Finished Lever Stops and Stop and Waste Cocks.

	¾	½	⅓	¼	1	1¼	1½	2
Fig. 969, Ball Hdle., Fin'd,..... per doz	18.50	19.50	22.00	28.50	42.00	68.50	95.50	190.00
“ “ “ N. Pltd.,..... “	20.50	22.00	24.50	31.00	45.00	.....	.....	.....
“ “ Cast Hdle., Fin'd,..... “	15.50	17.50	20.00	26.50	39.00	64.50	89.50	180.00
“ “ “ N. Pltd.,..... “	17.50	20.00	22.50	29.00	42.00	.....	.....	.....
“ 970, Ball Hdle., S.&W., Fin'd, “	20.50	21.50	24.00	30.50	45.00	.....	.....	.....
“ “ “ N. Pltd., “	22.50	24.00	26.50	33.00	48.00	.....	.....	.....
“ “ Cast Hdle., “ Fin'd, “	18.00	20.00	22.50	29.00	43.00	.....	.....	.....
“ “ “ N. Pltd., “	20.00	22.50	25.00	31.50	46.00	.....	.....	.....
“ 971, “ Stop, Fin'd, “	16.50	18.50	21.50	28.00	41.00	67.00	93.00	185.00
“ “ “ N. Pltd., “	18.50	21.00	24.00	30.50	44.00	.....	.....	.....
“ 972, “ S.&W., Fin'd, “	19.00	21.00	24.00	30.50	45.00	.....	.....	.....
“ “ “ N. Pltd., “	21.00	23.50	26.50	33.00	48.00	.....	.....	.....
“ 973, “ Stop, Fin'd, “	16.50	18.50	21.50	28.00	41.00	.....	.....	.....
“ “ “ N. Pltd., “	18.50	21.00	24.00	30.50	44.00	.....	.....	.....
“ 974, “ S.&W., Fin'd, “	19.00	21.00	24.00	30.50	45.00	.....	.....	.....
“ “ “ N. Pltd., “	21.00	23.50	26.50	33.00	48.00	.....	.....	.....
“ 975, “ Stop, Fin'd, “	17.50	19.50	23.00	29.50	43.00	.....	.....	.....
“ “ “ N. Pltd., “	19.50	22.00	25.50	32.00	46.00	.....	.....	.....
“ 976, “ S.&W., Fin'd, “	19.50	21.50	25.00	31.50	46.00	.....	.....	.....
“ “ “ N. Pltd., “	21.50	24.00	29.50	34.00	49.00	.....	.....	.....

Revised Price List of

Finished Roundway Stops and Stop and Waste Cocks.

	¾	½	⅓	¼	1	1¼	1½	2
Fig 977, Cast Hdle, Stop, Fin'd....per doz.	22.50	26.00	33.50	58.00	.....	.....	.....
“ “ “ N. Pltd..... “	26.00	29.50	37.50	62.00	.....	.....	.....
“ 978, “ S.&W., Fin'd .. “	25.00	28.50	36.00	62.00	.....	.....	.....
“ “ “ N. Pltd., “	29.00	32.50	41.00	67.00	.....	.....	.....
“ 979, “ Stop, Fin'd..... “	23.50	27.50	35.00	60.00	.....	.....	.....
“ “ “ N. Pltd... “	27.00	31.00	39.00	64.00	.....	.....	.....
“ 980, “ S.&W., Fin'd .. “	26.00	30.00	37.50	64.00	.....	.....	.....
“ “ “ N. Pltd., “	29.50	34.50	41.50	68.00	.....	.....	.....
“ 981, “ Stop, Fin'd..... “	25.00	29.50	37.50	63.00	.....	.....	.....
“ “ “ N. Pltd... “	29.00	33.50	42.50	68.50	.....	.....	.....
“ 982, “ S.&W., Fin'd .. “	27.50	32.00	40.50	67.50	.....	.....	.....
“ “ “ N. Pltd... “	32.00	36.50	46.50	74.00	.....	.....	.....
“ 983, “ Stop, Fin'd..... “	30.50	35.00	45.50	73.00	.....	.....	.....
“ “ “ N. Pltd... “	35.00	39.50	51.50	79.50	.....	.....	.....
“ “ “ S.&W., Fin'd .. “	33.00	37.50	48.50	77.50	.....	.....	.....
“ “ “ N. Pltd.. “	37.50	41.50	54.50	83.50	.....	.....	.....

Revised Price List of Rough Stops and Stop and Waste Cocks.

			$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	1¼	1½	2
Fig.	984, T. H. Rough, - per doz.		11.00	13.00	15.00	19.00	28.00	46.00	64.00	110.00
"	985, L. H. " - "		12.00	14.00	16.50	20.50	30.00	48.50	67.50	115.00
"	986, T. H. " S. & W. "		13.00	15.00	17.00	21.00	31.00	50.00	70.00	120.00
"	987, L. H. " " "		14.00	16.00	18.50	22.50	33.00	52.50	73.50	125.00
"	988, T. H. " Stop, "		12.00	14.00	16.50	20.50	30.00	48.50	67.50	115.00
"	989, L. H. " " "		13.00	15.00	18.00	22.00	32.00	51.00	71.00	120.00
"	990, T. H. " S. & W. "		14.00	16.00	18.50	22.50	33.00	52.50	73.50	125.00
"	991, L. H. " " "		15.00	17.00	20.00	24.00	35.00	55.00	77.00	130.00
"	992, T. H. " Stop, "		12.00	14.00	16.50	20.50	30.00	48.50	67.50	115.00
"	993, L. H. " " "		13.00	15.00	18.00	22.00	32.00	51.00	71.00	120.00
"	994, T. H. " S. & W. "		14.00	16.00	18.50	22.50	33.00	52.50	73.50	125.00
"	995, L. H. " " "		15.00	17.00	20.00	24.00	35.00	55.00	77.00	130.00
"	996, " " Stop, "		.....	19.50	23.00	29.00	40.50	.....	.....	.....
"	" " Fin'd " "		.....	23.50	27.00	36.00	52.00	.....	.....	.....
"	" " N. Pltd. " "		.....	26.00	29.50	38.50	55.00	.....	.....	.....
"	" " Rough, S. & W. "		.....	21.50	25.00	31.00	43.50	.....	.....	.....
"	" " Fin'd, " "		.....	25.50	29.00	38.00	55.00	.....	.....	.....
"	" " N. Pltd., " "		.....	28.00	31.50	40.50	58.00	.....	.....	.....
"	997, L. H. Rough Stop, "		.....	18.50	22.00	27.00	38.50	63.00	94.00	185.00
"	999, T. H. " " "		13.00	15.00	18.00	22.00	32.00	51.00	71.00	120.00
"	1000, L. H. " " "		14.00	16.00	.....	23.50	34.00	53.50	74.50	125.00
"	1001, T. H. " S. & W. "		15.00	17.00	.....	24.00	35.00	55.00	77.00	130.00
"	1002, L. H. " " "		16.00	18.00	.....	25.50	37.00	57.50	80.50	135.00

Revised List of Rough Roundway Stops and Stop and Waste Cocks, Figures 1003-1025.

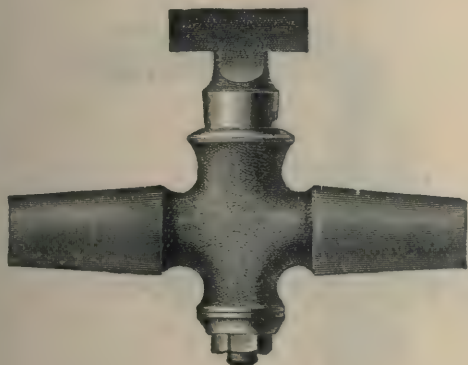
			$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	1¼	1½	2
Fig.	1003, T. H. Stop, L. Pipe, per doz.	.....	17.00	20.00	25.00	44.00	70.00	100.00	180.00	
"	1004, L. H. " " "	.....	18.00	21.00	26.50	46.00	72.50	103.50	185.00	
"	1005, T. H. S. & W. " "	.....	19.00	22.00	27.00	47.00	74.00	106.00	190.00	
"	1006, L. H. " " "	.....	20.00	23.50	28.50	49.00	76.50	109.50	195.00	
"	1007, T. H. Stop, L. & I. Pipe, "	.....	18.00	21.50	26.50	46.00	72.50	103.50	185.00	
"	1008, L. H. " " "	.....	19.00	23.00	28.00	48.00	75.00	107.00	190.00	
"	1009, T. H. S. & W. " "	.....	20.00	23.50	28.50	49.00	76.50	109.50	195.00	
"	1010, L. H. " " "	.....	21.00	25.00	30.00	51.00	79.00	113.00	200.00	
"	1011, T. H. Stop, Iron Pipe, "	.....	19.00	23.00	28.00	48.00	75.00	107.00	190.00	
"	1012, L. H. " " "	.....	20.00	24.50	29.50	50.00	77.50	110.50	195.00	
"	1013, T. H. S. & W. " "	.....	21.00	25.00	30.00	51.00	79.00	113.00	200.00	
"	1014, L. H. " " "	.....	22.00	26.50	31.50	53.00	81.50	116.50	205.00	
"	1015, T. H. Stop, M. & F. I. P. "	.....	19.50	24.00	29.00	49.50	77.00	110.00	195.00	
"	1016, L. H. " " "	.....	20.50	25.50	30.50	51.50	79.00	113.50	200.00	
"	1017, T. H. S. & W. " " "	.....	21.50	26.00	31.00	52.50	81.00	116.00	205.00	
"	1018, L. H. " " " "	.....	22.50	27.50	32.50	54.50	83.50	119.50	210.00	
"	1019, T. H. Stop, M. I. P., "	.....	20.00	25.00	30.00	51.00	.....	.....	.....
"	1020, L. H. " " "	.....	21.00	26.50	31.50	53.00	.....	.....	.....
"	1021, T. H., S. & W. " "	.....	22.00	27.00	32.00	54.00	.....	.....	.....
"	1022, L. H. " " "	.....	23.00	28.50	33.50	56.00	.....	.....	.....
"	1023, L. H. Stop, L. Pipe, "	.....	24.50	29.50	35.50	58.50	.....	.....	.....
"	" " S & W. " "	.....	25.50	31.00	37.00	60.50	.....	.....	.....
"	1024, " Stop, I. Pipe, "	.....	25.00	30.00	36.50	60.00	.....	.....	.....
"	1024, " S. & W. " "	.....	26.50	31.50	38.00	62.00	.....	.....	.....
"	1025, " Stop, L. Pipe " "	.....	24.50	29.50	35.50	58.50	.....	.....	.....

Rough Stops and Stop and Wastes

Stops for Lead Pipe.

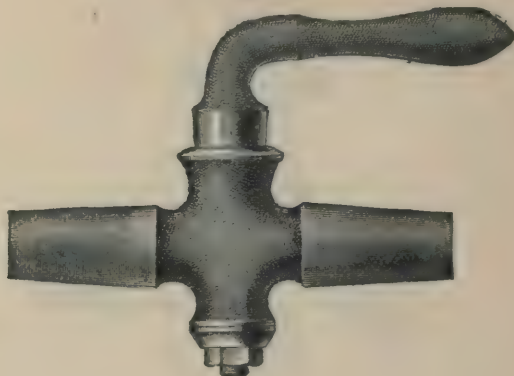
T Handle.

Fig. 984.



L Handle.

Fig. 985.

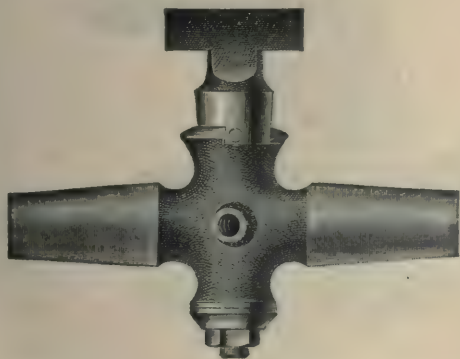


Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 984. Price per doz.	9.00	12.00	15.00	19.00	28.00	46.00	64.00	110.00	250.00	350.00
" 985. " "	9.00	12.00	15.00	19.00	28.00	46.00	64.00	110.00	250.00	350.00

Stop and Wastes, for Lead Pipe.

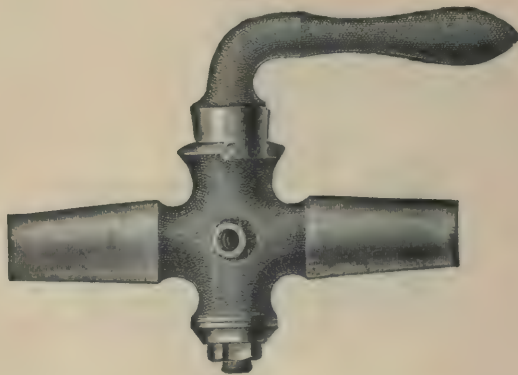
T Handle.

Fig. 986.



L Handle.

Fig. 987.



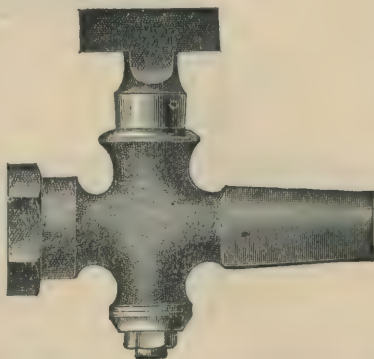
Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 986..... Price per dozen	10.00	13.00	16.00	20.50	30.00	49.00	68.00	120.00
" 987..... " "	10.00	13.00	16.00	20.50	30.00	49.00	68.00	120.00

Rough Stops and Stop and Wastes

Stops for Lead and Iron Pipe.

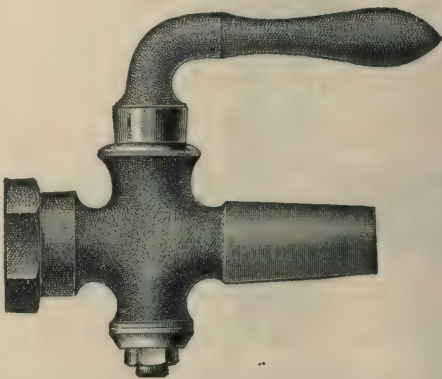
T Handle.

Fig. 988.



L Handle.

Fig. 989.

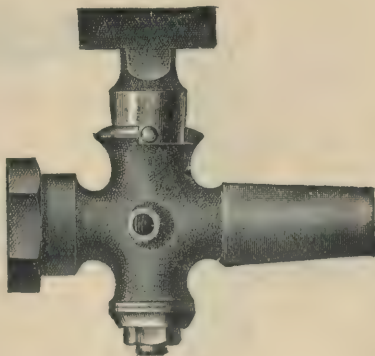


Size, Inches			$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 988,		price per dozen	9.50	12.50	16.00	20.00	29.50	48.00	67.00	115.00
" 989,		" "	9.50	12.50	16.00	20.00	29.50	48.00	67.00	115.00

Stop and Wastes For Lead and Iron Pipe.

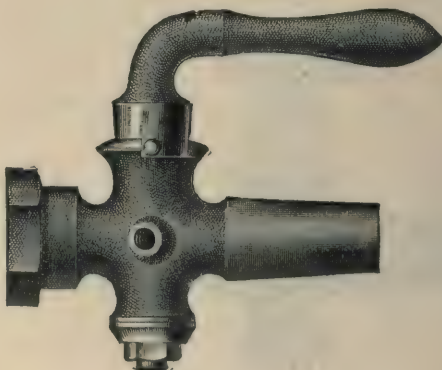
T Handle.

Fig. 990.



L Handle.

Fig. 991.



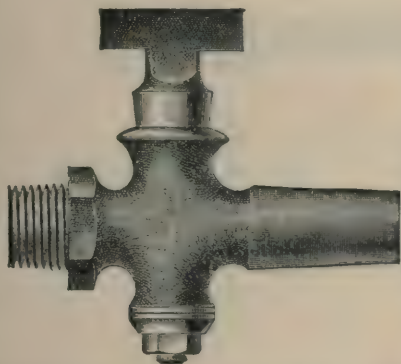
Size, Inches				$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 990,		price per dozen		10.50	13.50	17.00	21.50	31.50	51.00	71.00	125.00
" 991,		" "		10.50	13.50	17.00	21.50	31.50	51.00	71.00	125.00

Rough Stops and Stop and Wastes.

For Lead and Iron Pipe, Outside Screw.

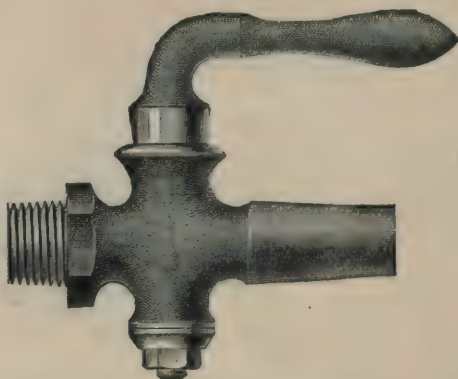
T Handle.

Fig. 992.



L Handle.

Fig. 993.



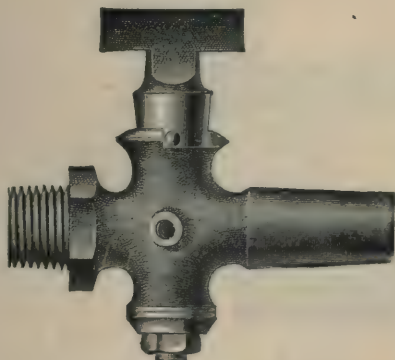
Size, inches.....	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 992, Price per dozen	9.50	12.50	16.00	20.00	29.50	48.00	67.00	115.00
" 993, " " "	9.50	12.50	16.00	20.00	29.50	48.00	67.00	115.00

STOP AND WASTES

For Lead and Iron Pipe, Outside Screw.

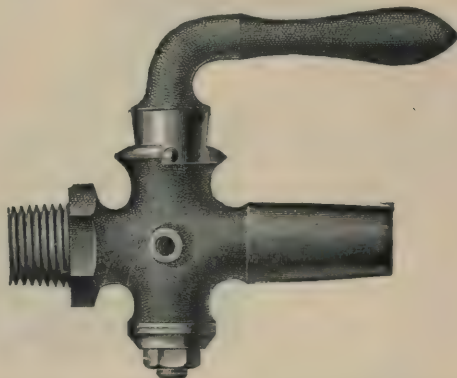
T Handle.

Fig. 994.



L Handle.

Fig. 995.

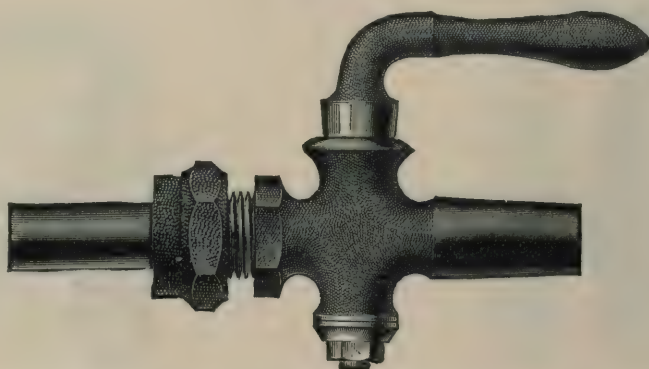


Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 994, Price per dozen	10.50	13.50	17.00	21.50	31.50	51.00	71.00	125.00
" 995, " " "	10.50	13.50	17.00	21.50	31.50	51.00	71.00	125.00

Rough L. H. Stop, with Plain Coupling.

For Lead Pipe.

Fig. 996.

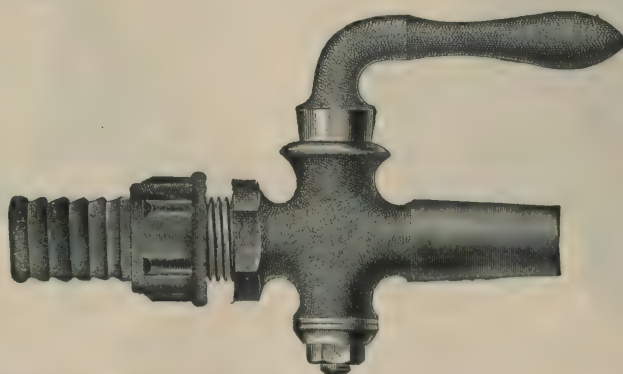


Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 996, Rough	17.00	21.00	27.00	38.00
" 996, Finished	21.00	25.00	34.00	50.00
" 996, Nickel Plated	23.50	27.50	36.50	53.00

Rough L. H. Stop, with Hose Coupling.

For Lead Pipe.

Fig. 997.



Size, Inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough, . . . Price per Dozen	16.00	20.00	25.00	36.00	60.00	90.00	180.00

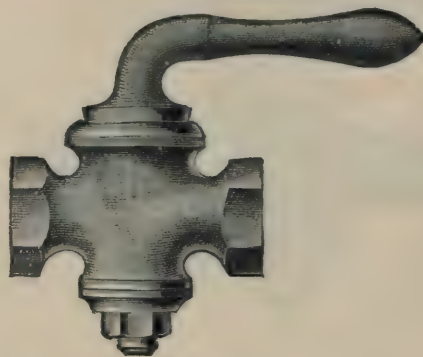
Rough Stop and Stop and Wastes.

Stops for Iron Pipe.

T HANDLE.—Fig. 999.



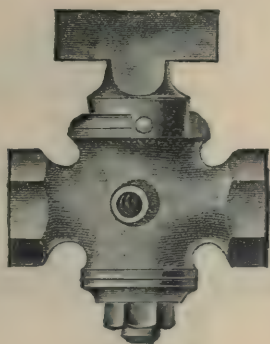
L HANDLE.—Fig. 1000.



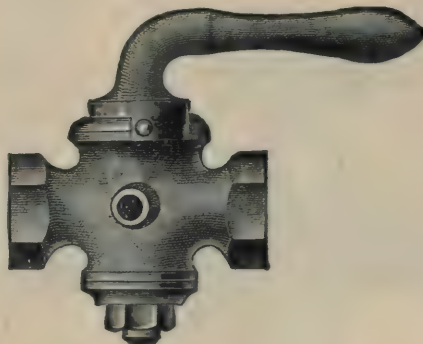
Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 999. price each	10.00	13.00	21.00	31.00	50.00	70.00	120.00
" 1000. " "	10.00	13.00	21.00	31.00	.....	.....	.....

Stop and Wastes For Iron Pipe.

T HANDLE.—Fig. 1001.



L HANDLE.—Fig. 1002.



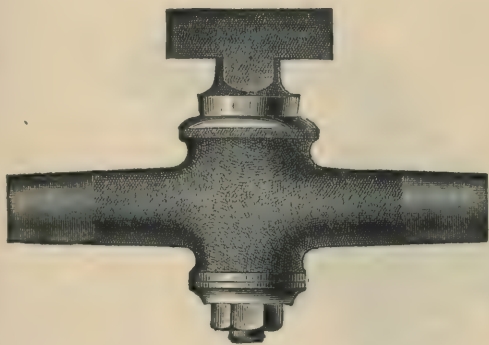
Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1001.	11.00	14.00	22.50	33.00	53.00	74.00	130.00
" 1002.	11.00	14.00	22.50	33.00	.....	.....	.....

Rough Round Way Stops.

For Lead Pipe.

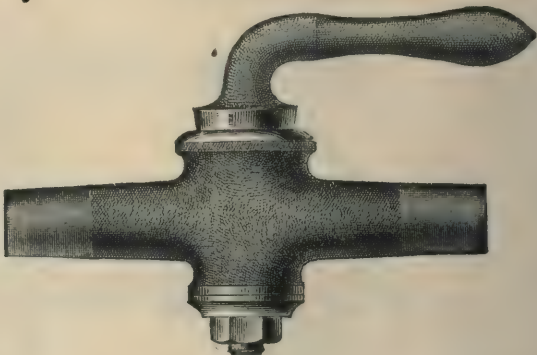
T Handle.

Fig. 1003.



L Handle.

Fig. 1004.



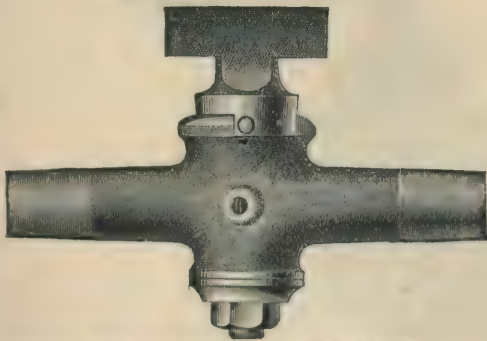
Size, Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1003,	Price per dozen	15.00	17.00	20.00	25.00	44.00	70.00	100.00	180.00
" 1004,	" "	15.00	17.00	20.00	25.00	44.00	70.00	100.00	180.00

Rough Round Way Stop and Waste.

For Lead Pipe.

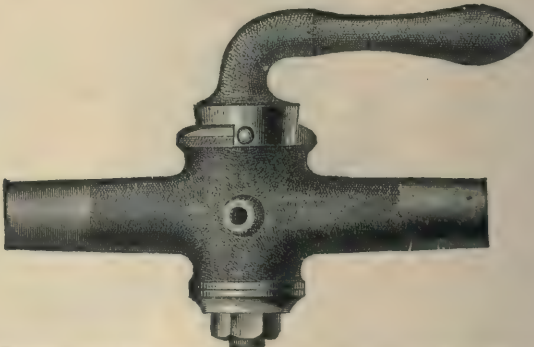
T Handle.

Fig. 1005.



L Handle.

Fig. 1006.



Size, Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1005,	Price per dozen	16.00	18.00	21.00	26.50	46.00	73.00	104.00	190.00
" 1006,	" "	16.00	18.00	21.00	26.50	46.00	73.00	104.00	190.00

Rough Round Way Stops.

For Lead and Iron Pipe.

Fig. 1007.—T HANDLE.

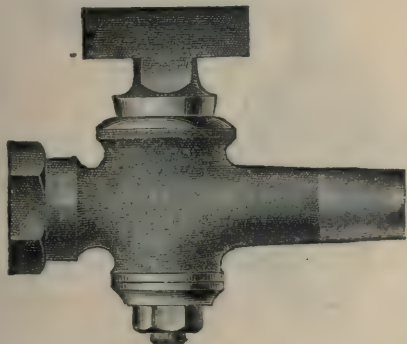
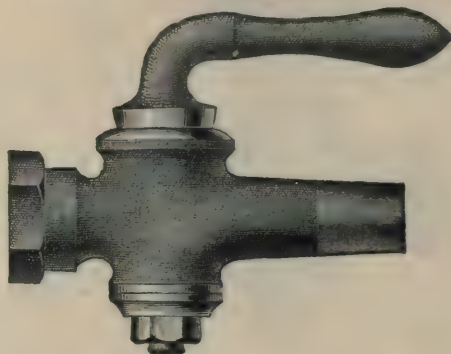


Fig. 1008.—L HANDLE.



Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1007, price per dozen	15.50	17.50	21.00	26.00	45.50	72.00	103.00	185.00
" 1008, " "	15.50	17.50	21.00	26.00	45.50	72.00	103.00	185.00

Rough Round Way Stop and Waste.

For Lead and Iron Pipe.

Fig. 1009.—T HANDLE.

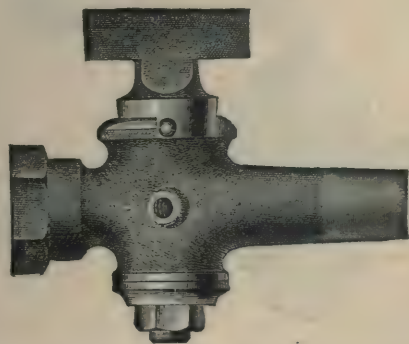
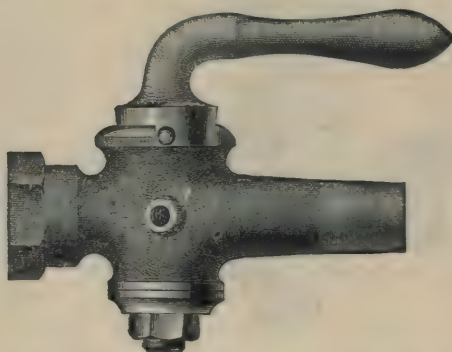


Fig. 1010.—L HANDLE.

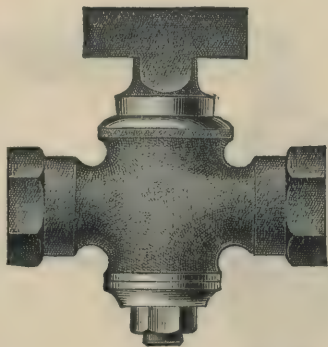


Size, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1009, price per dozen	16.50	18.50	22.00	27.50	47.50	75.00	107.00	195.00
" 1010, " "	16.50	18.50	22.00	27.50	47.50	75.00	107.00	195.00

Rough Round Way Stops.
For Iron Pipe.

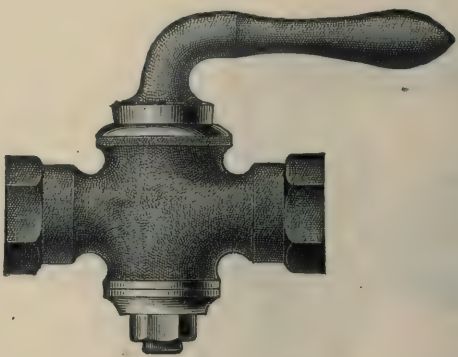
T Handle.

Fig. 1011.



L Handle.

Fig. 1012.

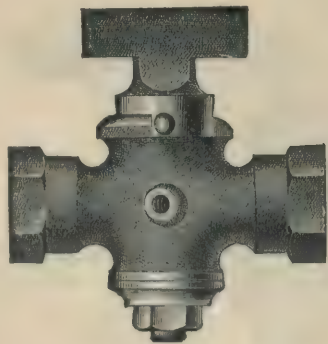


Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1011....Price per dozen	18.00	22.00	27.00	47.00	74.00	106.00	190.00
" 1012.... " "	18.00	22.00	27.00	47.00	74.00	106.00	190.00

Rough Round Way Stop and Wastes.
For Iron Pipe.

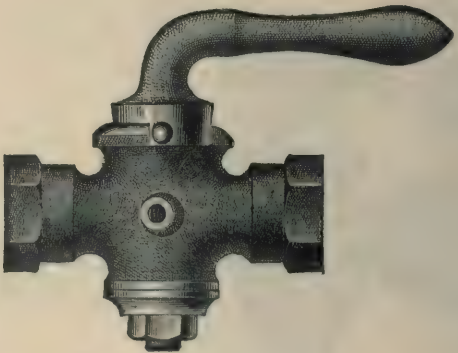
T Handle.

Fig. 1013.



L Handle.

Fig. 1014.



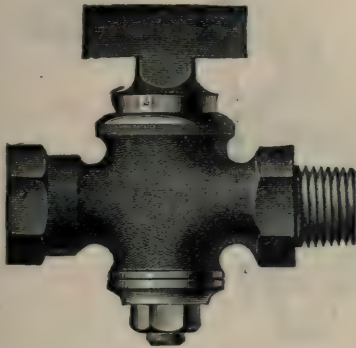
Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1013....Price per dozen	19.00	23.00	28.50	49.00	77.00	110.00	200.00
" 1014.... " "	19.00	23.00	28.50	49.00	77.00	110.00	200.00

Rough Round Way Stops.

For Iron Pipe. Male and Female.

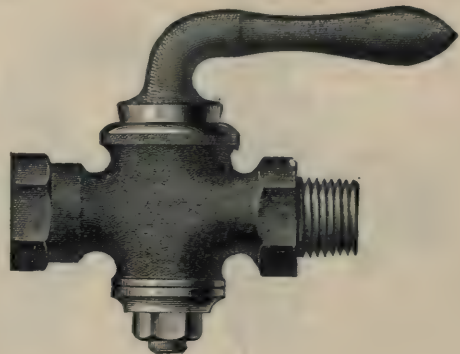
T Handle.

Fig. 1015.



L Handle.

Fig. 1016.



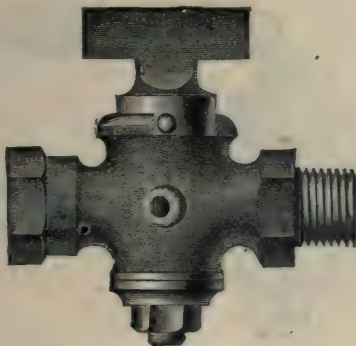
Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1015, . . . price per dozen	18.50	23.00	28.00	48.50	76.00	109.00	195.00
" 1016, . . . " "	18.50	23.00	28.00	48.50	76.00	109.00	195.00

Rough Round Way Stop and Wastes.

For Iron Pipe. Male and Female.

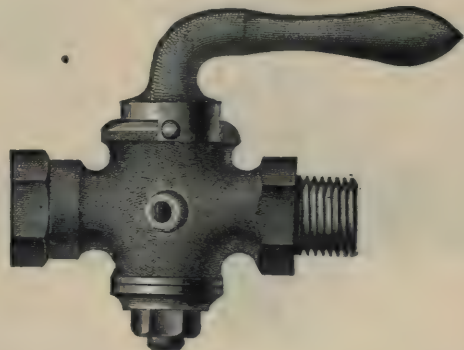
T Handle.

Fig. 1017.



L Handle.

Fig. 1018.

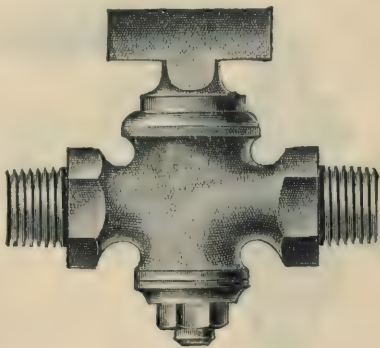


Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1017 Price per dozen	19.50	24.00	29.50	50.50	79.00	113.00	205.00
" 1018 " "	19.50	24.00	29.50	50.50	79.00	113.00	205.00

Rough Round Way Stops.
For Iron Pipe.

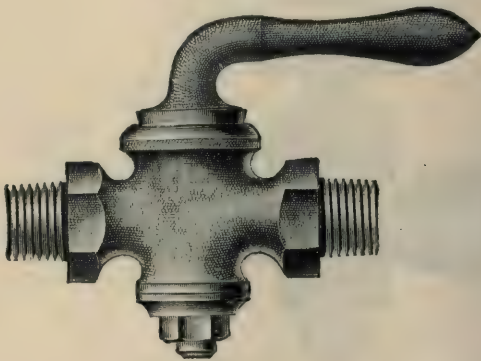
T Handle.

Fig. 1019.



L Handle.

Fig. 1020.

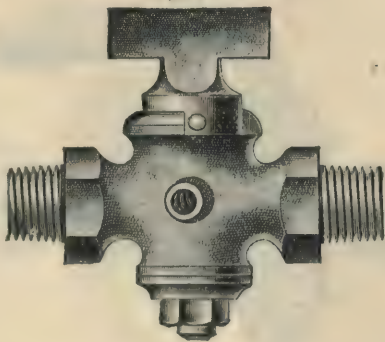


Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1019..... Price per doz.	18.50	23.00	28.00	48.50	76.00	109.00	195.00
" 1020..... " "	18.50	23.00	28.00	48.50	76.00	109.00	195.00

Rough Round Way Stop and Waste.
For Iron Pipe.

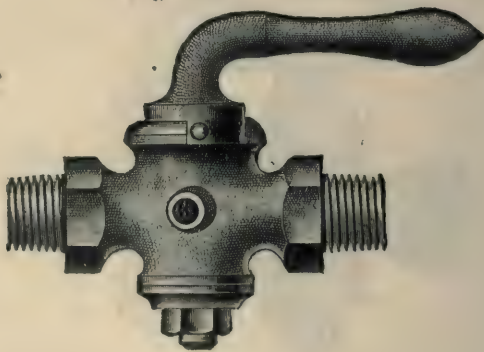
T Handle.

Fig. 1021.



L Handle.

Fig. 1022.

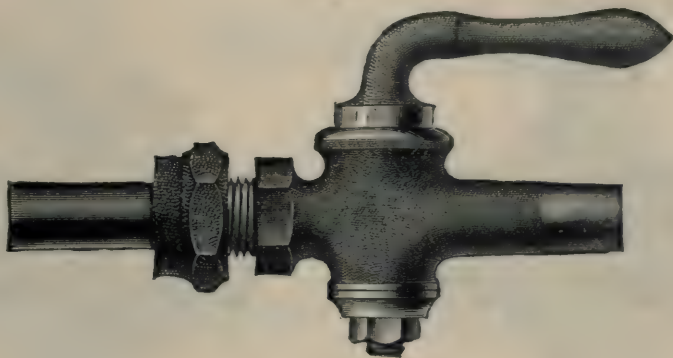


Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1021..... Price per doz.	19.50	24.00	29.50	50.50	79.00	113.00	205.00
" 1022..... " "	19.50	24.00	29.50	50.50	79.00	113.00	205.00

Rough Round Way L Handle Stops with Coupling.

For Lead Pipe.

Fig. 1023.



Size, Inches,		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
Stop,	price per dozen	23.00	27.00	34.50	56.00
Stop and Waste,	" "	24.00	28.00	36.00	58.00

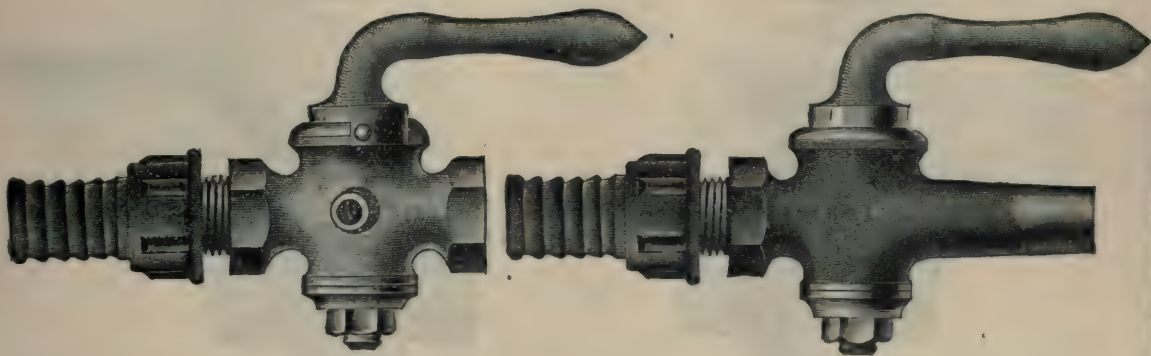
Rough Round Way L Handle Stops with Hose Coupling.

For Iron Pipe.

Fig. 1024.

For Lead Pipe

Fig. 1025.

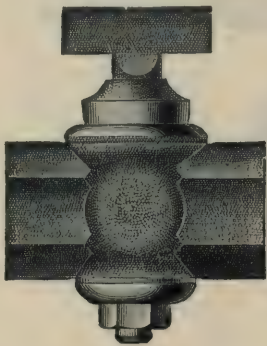


Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1024.	price per dozen	23.00	28.00	34.50	57.00	93.00	131.00	235.00
" 1025.	" "	22.00	26.00	32.50	54.00	89.00	125.00	225.00

Rough Roundway Stops, Short Pattern.
For Iron Pipe.

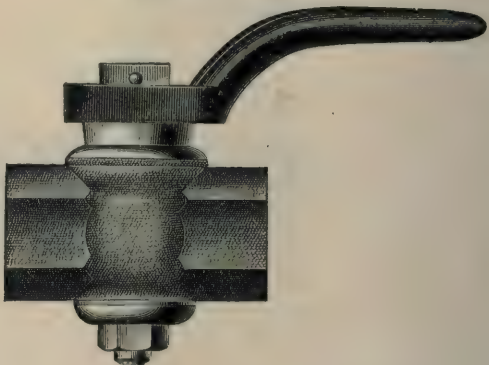
T Handle

Fig. 1026.



L Handle

Fig. 1027.

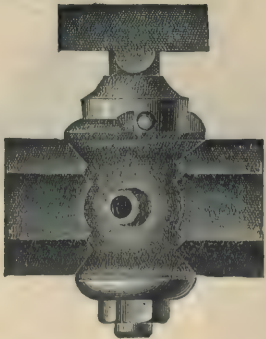


Size, Inches,		$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 1026,	price per dozen	15.00	20.00	40.00
" 1027,	" "	15.00	20.00	40.00

Rough Roundway Stop and Wastes, Short Pattern.
For Iron Pipe.

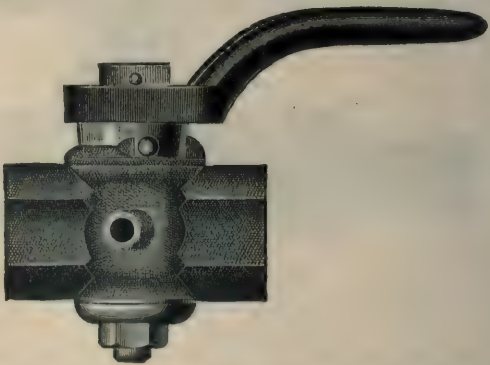
T Handle

Fig. 1028.



L Handle

Fig. 1029.

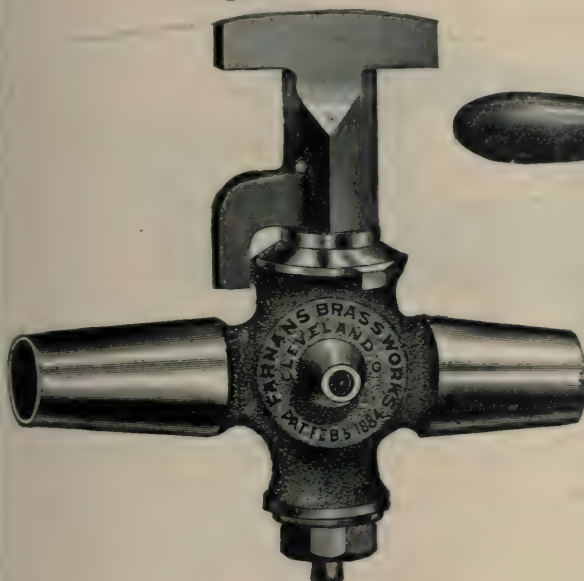


Size, Inches,		$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 1028,	price per dozen	16.00	21.50	42.00
" 1029,	" "	16.00	21.50	42.00

Farnan's Patent Rough Stop and Waste Cocks.

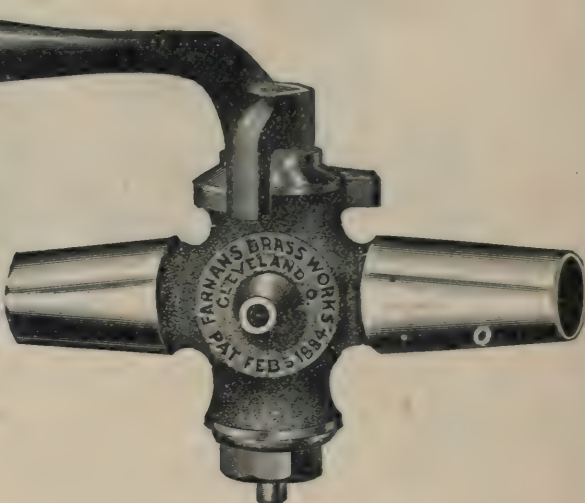
T Handle, For Lead Pipe.

Fig. 1030.



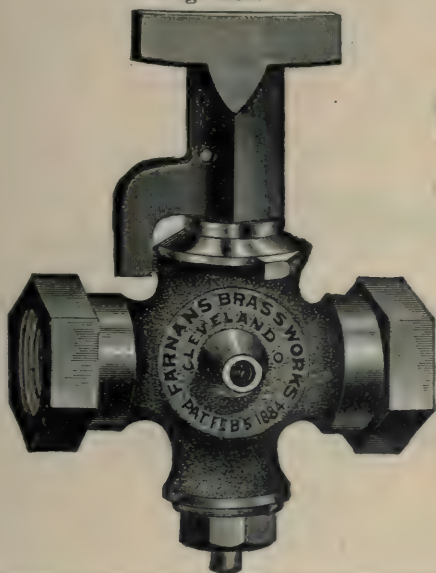
Lever Handle, For Lead Pipe.

Fig. 1031.



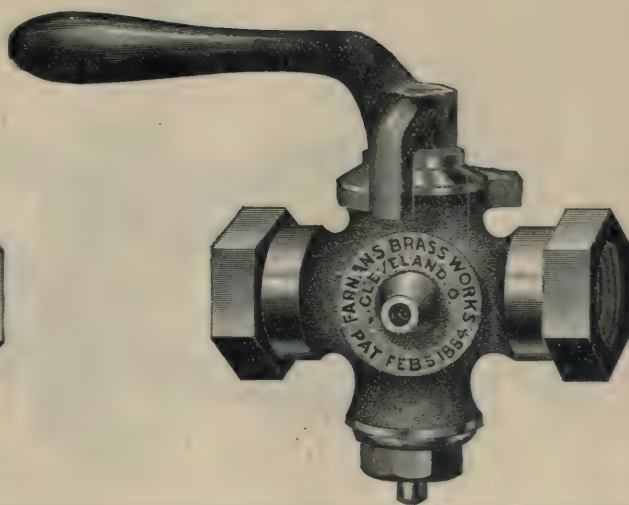
T Handle, For Iron Pipe.

Fig. 1032.



Lever Handle, For Iron Pipe.

Fig. 1033.

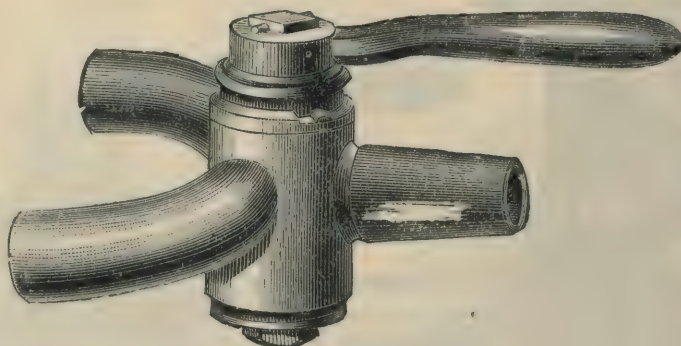


Size, Inches,						$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1				
Fig. 1030.	} for Lead Pipe, T or Lever Handle,	Price each				13.00	16.00	20.50	30.00				
" 1031.													
" 1032.						" Iron Pipe,	"	"	"	14.00	22.50	33.00
" 1033.													
For Lead and Iron Pipe,						13.50	17.00	22.00	31.50				

Rain and Well Water Cocks.

For Lead Pipe.

Fig. 1034.

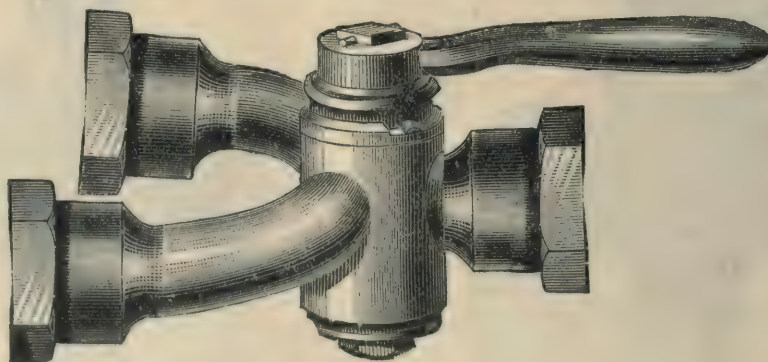


Size, Inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Rough..... Price per dozen	70.00	84.00	120.00	200.00

Rain and Well Water Cocks.

For Iron Pipe.

Fig. 1035.

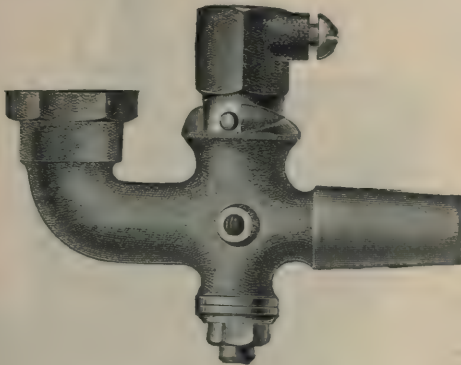


Size, Inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Rough..... Price per dozen	79.00	96.00	138.00	230.00

Plug Hydrant Cocks, Rough.
Nut and Washer.

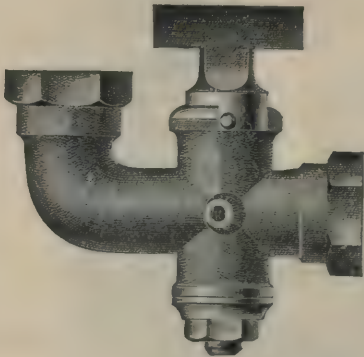
Socket Head
For Iron and Lead Pipe.

Fig. 1036.



T Head
For Iron Pipe.

Fig. 1037.

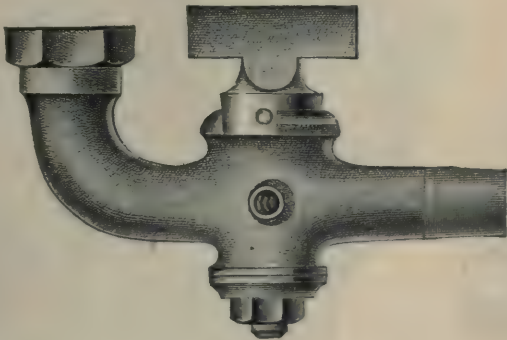


Size, Inches.	$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 1036. Socket or T Head.	14.50	18.00	22.00
Fig. 1037.	15.00	18.50	23.00

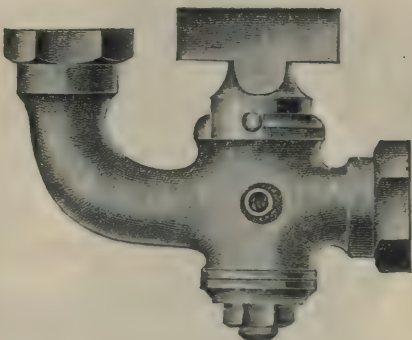
Socket Head as shown, Fig.1036, same List as T Heads. Unless otherwise ordered, T Heads will be supplied.

Round Way.

T Head
For Iron and Lead Pipe.
Fig. 1038.



T Head
For Iron Pipe.
Fig. 1039.



Size, Inches.	$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 1038.	18.50	22.00	27.50
Fig. 1039.	19.00	23.00	28.50

Compression Hydrant Cocks.

Without Stuffing Box.

Fig. 1040.—FOR LEAD AND IRON PIPE.

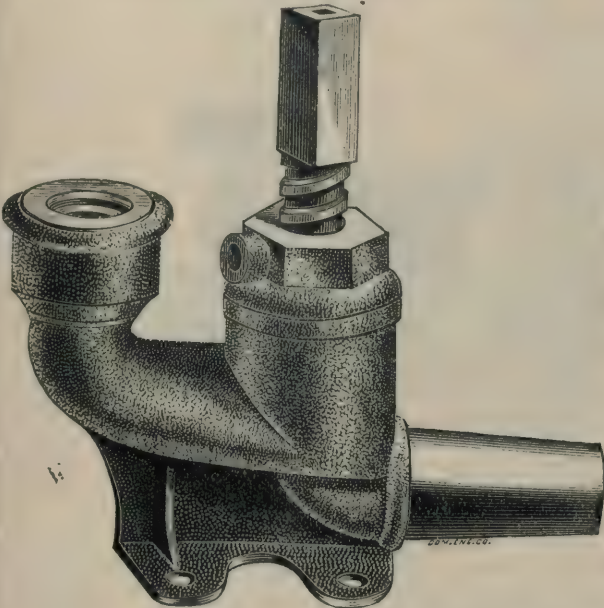
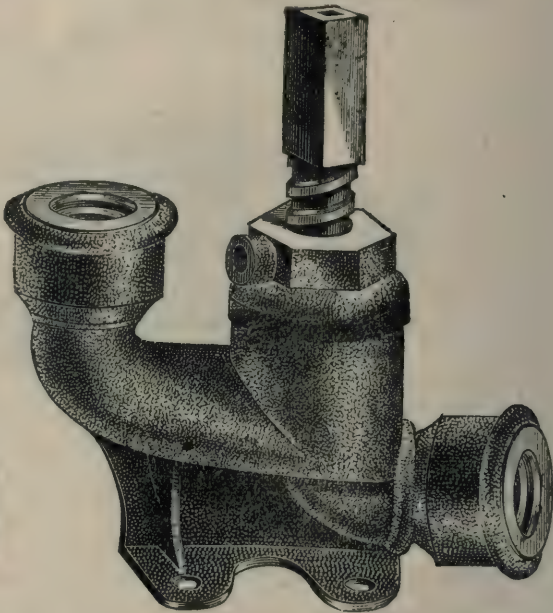


Fig. 1041.—FOR IRON PIPE.



With Stuffing Box.

Fig. 1042.—FOR LEAD AND IRON PIPE.

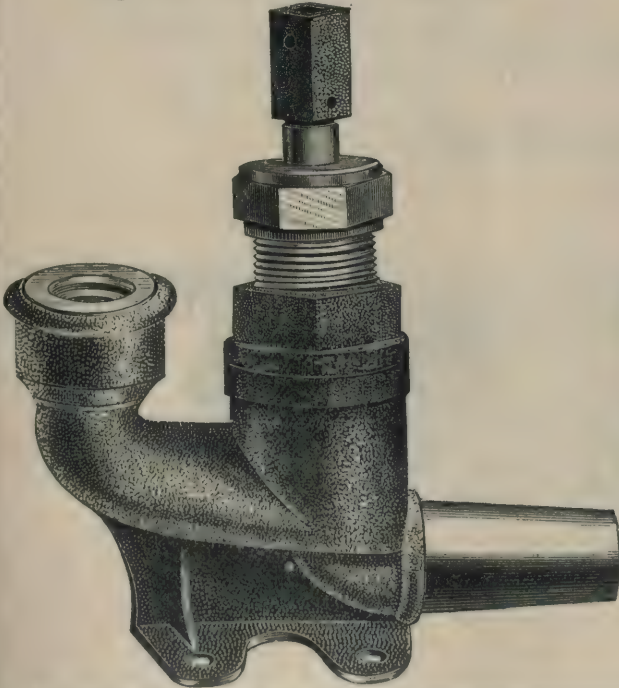
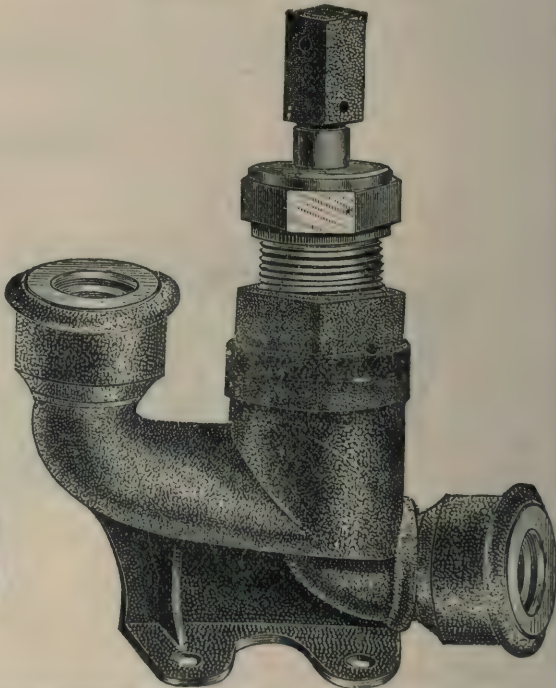


Fig. 1043.—FOR IRON PIPE.

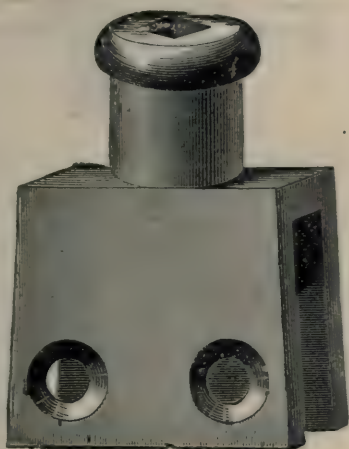


Size		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Fig. 1040.	Price per dozen	20.50	23.00	25.00	46.25	70.00	105.00
" 1041.	" "	21.50	.....	26.50	49.00	74.00	112.00
" 1042.	" "	26.50	29.00	31.00	57.00	86.00	130.00
" 1043.	" "	27.50	.....	32.50	60.00	90.00	137.00

Hydrant Fittings.

Hydrant Clamp.

Fig. 1044.



Hydrant Socket.

Fig. 1045.

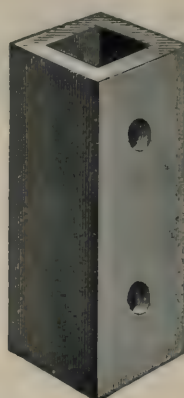


Fig. 1044. Hydrant Clamp, Brass	Price each	29
" 1045. Hydrant Socket, "	"	17

Hydrant Nozzles.

FOR LEAD PIPE.—Fig. 1046.

FOR IRON PIPE.—Fig. 1047.



DESCRIPTION	ROUGH				FINISHED			
Size of Lead and Iron Pipe Connection . . .	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1 in.	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1 in.
Fig. 1046. For Lead Pipe Price each	50	58	63	75	55	62	68	80
" 1047. For Iron Pipe "	67	..	80	92	72	..	85	1.00

Street Washer Screws.

Fig. 1048.

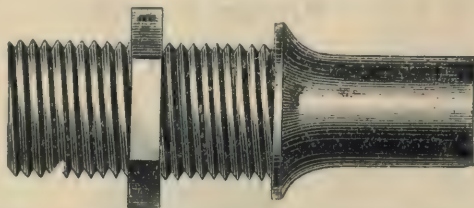
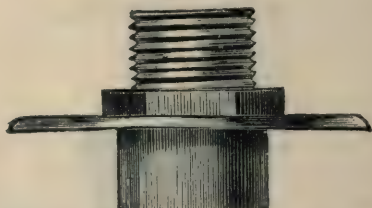


Fig. 1049.

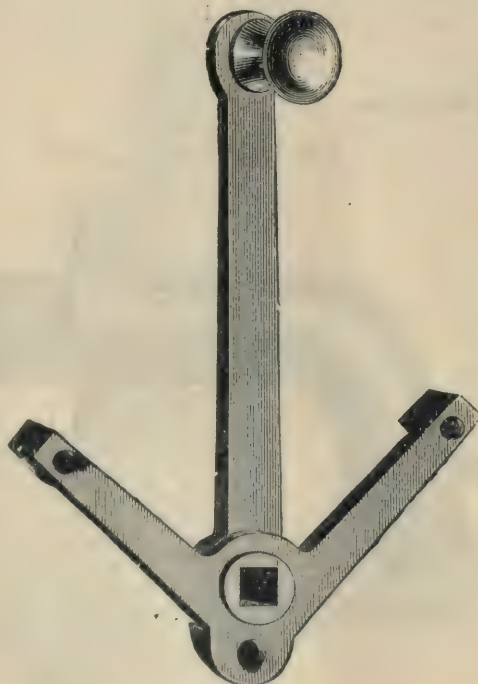


Size, Inches	$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 1048. Long Screw with Lock Nut, for Lead Pipe.....	Price each 46	50	71
" 1049. Short Screw with Flange, for Iron Pipe.....	" 58	58	..
" 1049. " " " " " " " " with Cap...	" 75	77	..

Hydrant Fittings.

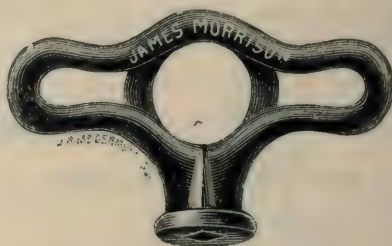
Hydrant Handle with Triangular Guide.

Fig. 1050.



T Handle.

Fig. 1051.



Street Washer Guide.

Fig. 1052.

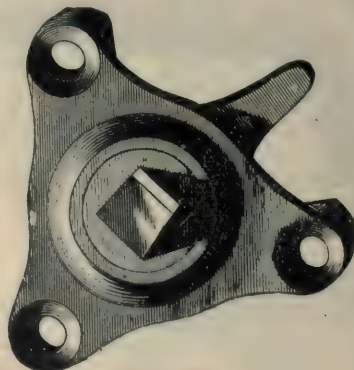


Fig. 1050. Finished, Brass Handle, with Triangular Guide.....	Price each \$0.67
" 1051. Malleable Iron T Handle, Japanned.....	" 10
" 1052. Street Washer Guide, Finished, Brass.....	" 25

Compression Hydrants.

The McNamara 2-Pipe Hydrant

1 IN. AND $\frac{3}{4}$ IN. PIPE.

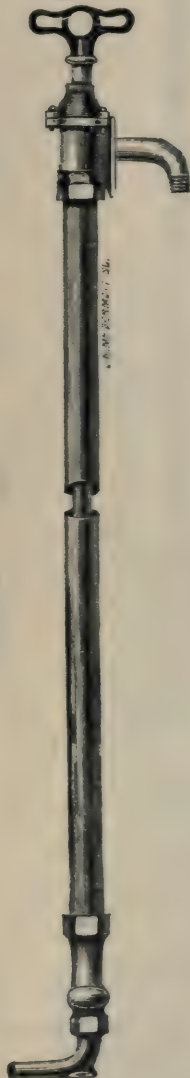
Fig. 1053.



Improved 2-Pipe Hydrant

1 $\frac{1}{4}$ IN. AND $\frac{1}{2}$ IN. PIPE

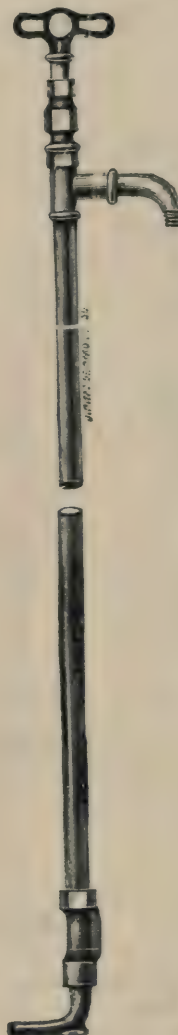
Fig. 1054.



Improved Single-Pipe Hydrant

1 IN. PIPE.

Fig. 1055.



Smith's Hydrant

1 $\frac{1}{4}$ IN. PIPE.

Fig. 1056.

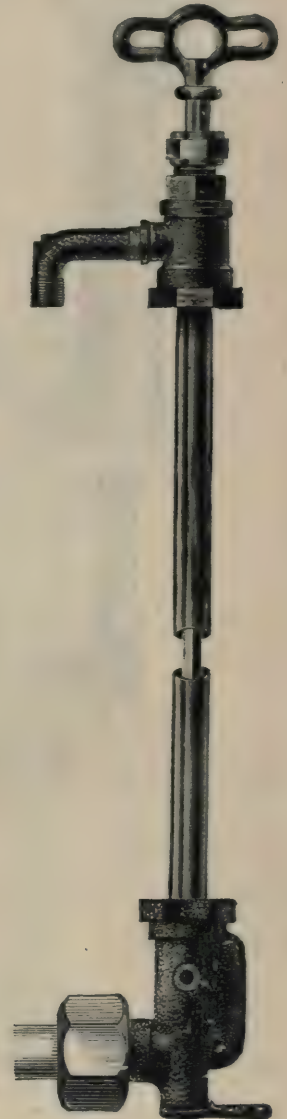
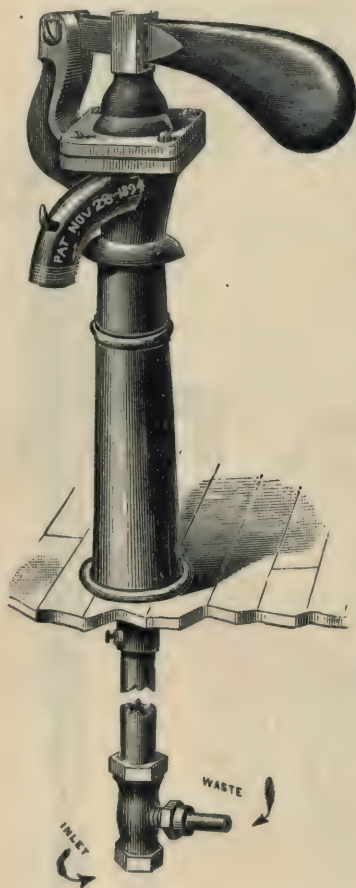


	FIG. 1053	FIG. 1054	FIG. 1055	FIG. 1056
Connections for Lead or Iron Pipe as required				
Hydrant Complete, put together price each	8.00	7.50	7.00	8.00
Complete Set of Fittings, without Pipe price per set	5.50	5.00	5.00	5.50

Hydrants, Etc.

Casler's Self-Closing
Anti-Freezing Hydrant.

Fig. 1057.



Inlet for 3/4 In. Lead or Iron Pipe.

Street Washer.

Fig. 1058.



Inlet for 3/4 in. Lead or Iron Pipe.

Valve Box.

Fig. 1059.



Casler's Hydrant.

Fig. 1057. To Set in Ground, Inches	18	24	36	48	60	72
Price each	8.25	8.50	9.00	9.50	10.00	10.50

Street Washer.

Fig. 1058. Complete with Mountings and 5 feet of Pipe, put together,	price each	7.00
" Complete Set of Mountings, without Iron Pipe	" "	5.00
" Street Washer Box, Cast Iron	" "	1.00

Valve Box.

Fig. 1059.	Number	B	CC.	DD.	F	H
Extends { from		36 in.	48 in.	48 in.	60 in.	72 in.
	{ to	48 in.	60 in.	72 in.	84 in.	96 in.
Price each		3.65	4.00	4.35	4.65	5.10

Customers in ordering will please give size of Valve used.

Cast Iron Street Stop Cock Boxes.

Fig. 1060.

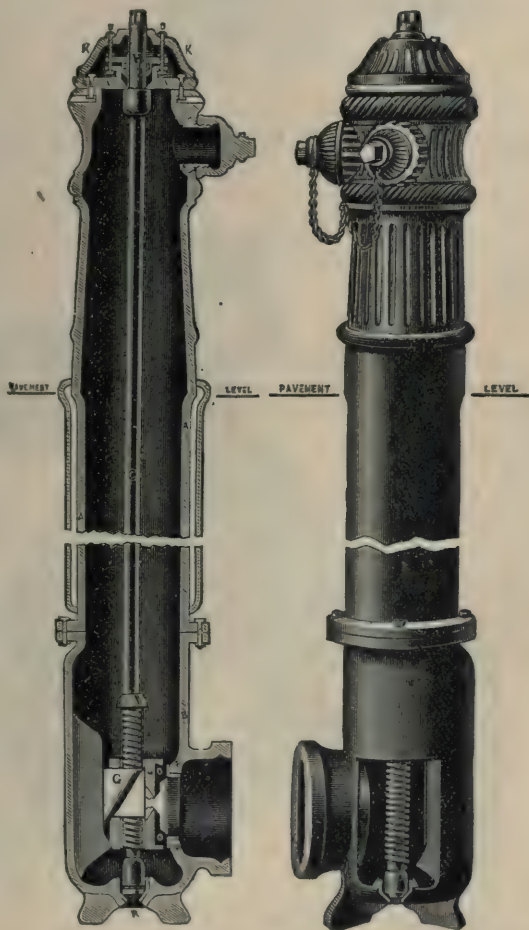


Number	Dimensions	No. 3. 2' 8" to 4' Long	No. 4. 2' 10" to 4' 10" Long	No. 5. 3' 6" to 5' 6" Long	No. 7. 4' to 6' Long	No. 8. 6' to 8' Long
Price each		1.30	1.50	1.62	1.75	2.00

STREET HYDRANTS.

Ludlow Pattern.

Fig. 1061.



Toronto Pattern with Frost Proof Case.

Fig. 1062.

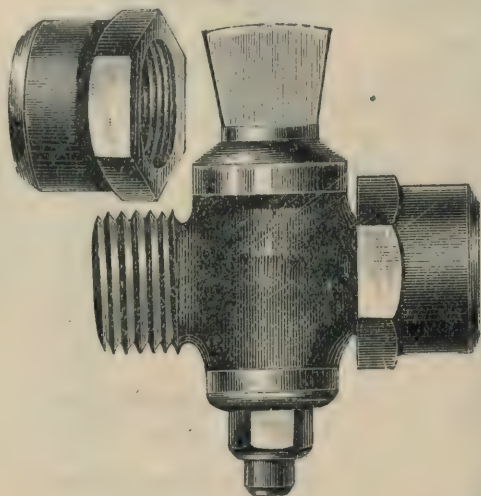


Length of Hydrant below Pavement Line, in feet		4½	5	6
Fig. 1061. Ludlow Hydrant	Price each	31.00	32.00	34.00
" 1062. Toronto Hydrant	" "	....	....	34.00

Corporation Service Brass Work.

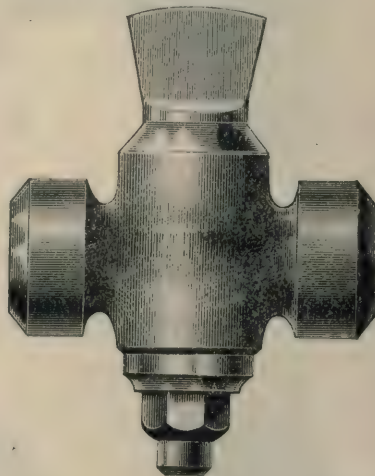
Service Cock, for Lead Pipe.

Fig. 1063.



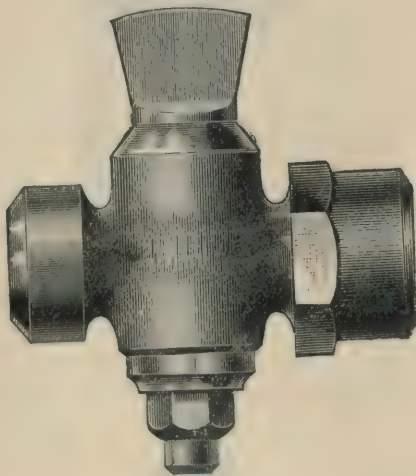
Service Cock, for Iron Pipe.

Fig. 1064.



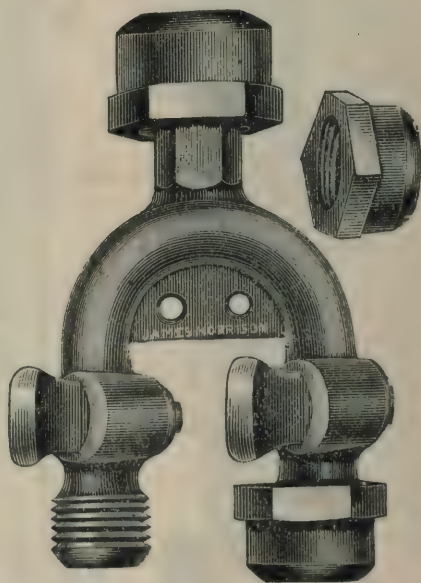
Service Cock, for Lead and Iron Pipe.

Fig. 1065.



3 Way Service Cock, for Lead Pipe.

Fig. 1066.



Size, Inches

Fig. 1063. Service Cock, L. Pipe Price each

" 1064. " " L. "

" 1065. " " L. & I. "

" 1066. 3 Way Cock, L. "

" 1066. " " I. "

$\frac{3}{8}$

$\frac{1}{2}$

$\frac{5}{8}$

$\frac{3}{4}$

1

$\frac{3}{8} \times \frac{1}{2}$

$\frac{1}{2} \times \frac{5}{8}$

$\frac{1}{2} \times \frac{3}{4}$

55

80

1.25

1.50

2.50

..

75

1.00

1.20

2.10

..

75

1.08

1.30

2.30

..

..

..

..

1.25

1.75

..

..

..

..

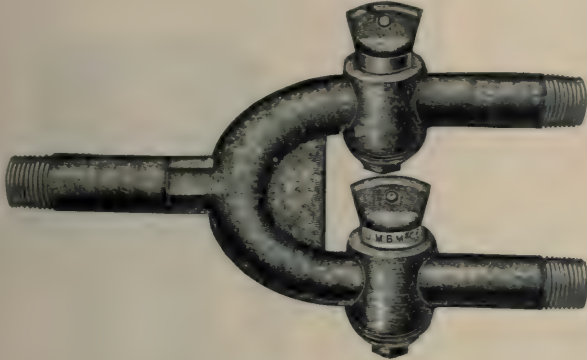
..

1.75

Corporation Service Brass Work.

Three Way Service Cock.

FOR LEAD PIPE TO SOLDER.—Fig. 1067.



Service Cock.

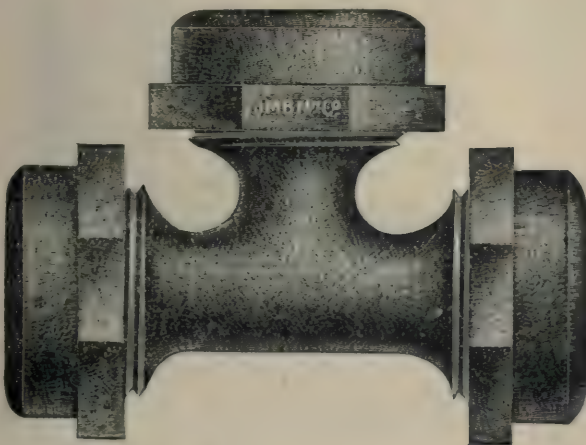
FOR LEAD PIPE TO SOLDER.—Fig. 1068.



Size, Inches	$\frac{1}{2} \times \frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 1067. For Lead Pipe Price each	1.75	....	....	....	....
" 1068. " " " . . . . . "	....	90	1.00	1.35	2.00

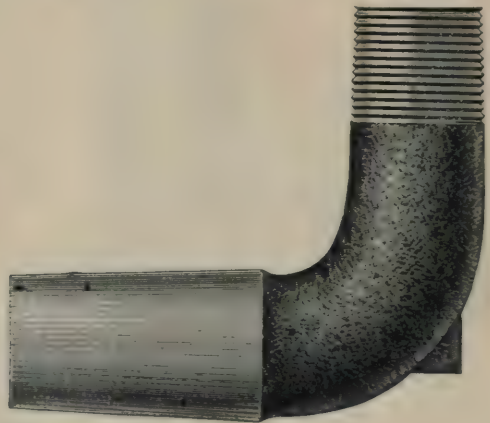
Three Way or T Piece.

FOR LEAD PIPE.—Fig. 1069.



Nipple.

FOR IRON PIPE. TO DRIVE.—Fig. 1070.



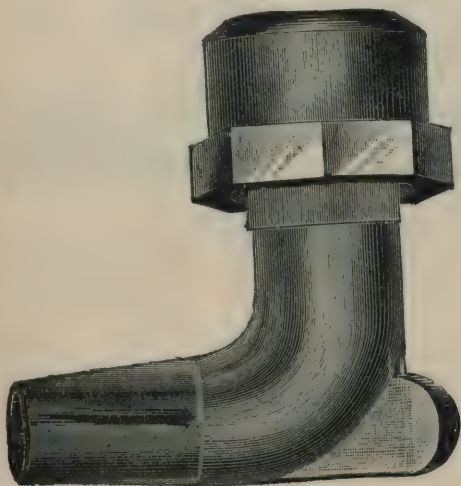
Size for Lead Pipe, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 1069. Three Way or T Piece Price each	90	1.25	....	....
" 1070. Nipple "	28	35	45	55

Corporation Service Brass Work.

Nipples.

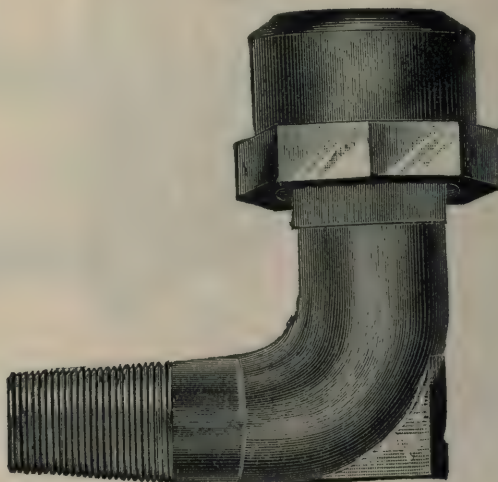
For Lead Pipe, to Drive.

Fig. 1071.



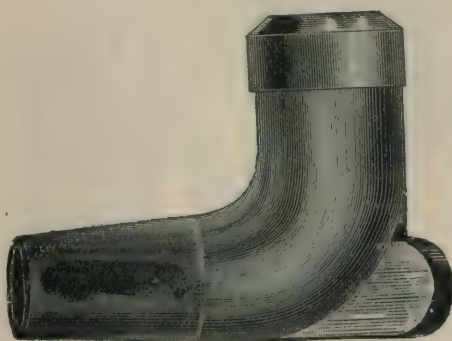
For Lead Pipe, to Screw.

Fig. 1072.



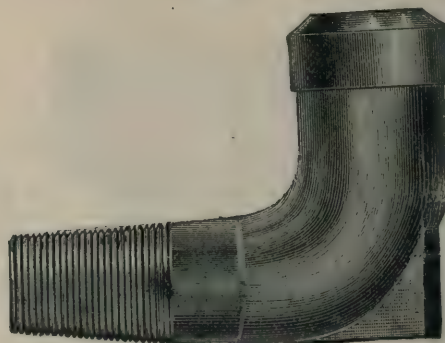
For Iron Pipe, to Drive.

Fig. 1073.



For Iron Pipe, to Screw.

Fig. 1074.



Size of Lead or Iron Pipe, Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 1071. Driving Nipple, for Lead Pipe..... Price each	22	32	50	56	80
" 1072. Screwing " " "	25	36	55	65	90
" 1073. Driving " " Iron "	20	28	45	50	..
" 1074. Screwing " " " "	22	32	50	55	67

Corporation Service Brass Work.

Compression Service Cock, for Lead Pipe.

Fig. 1075.—Without Stuffing Box.

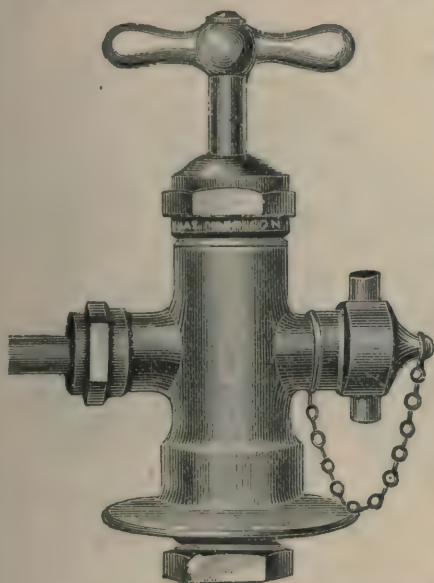
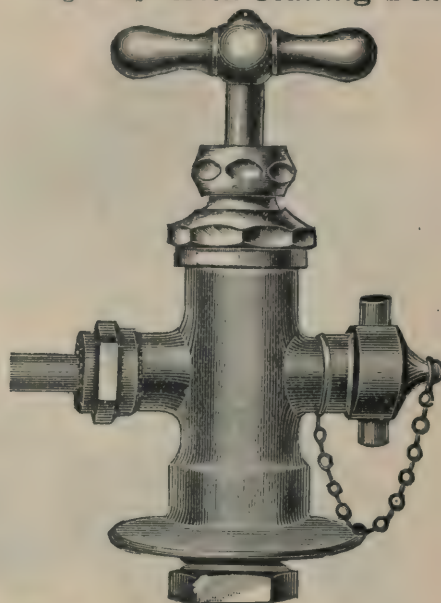
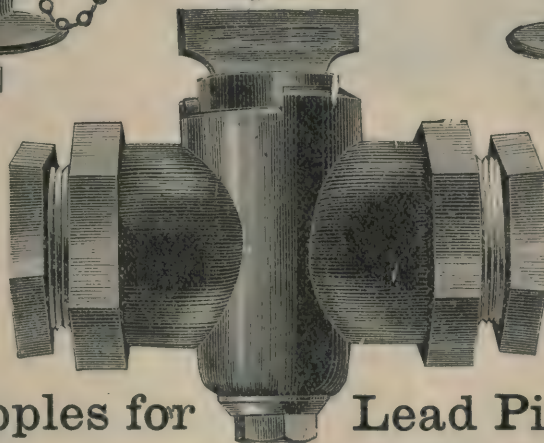


Fig. 1075½—With Stuffing Box.

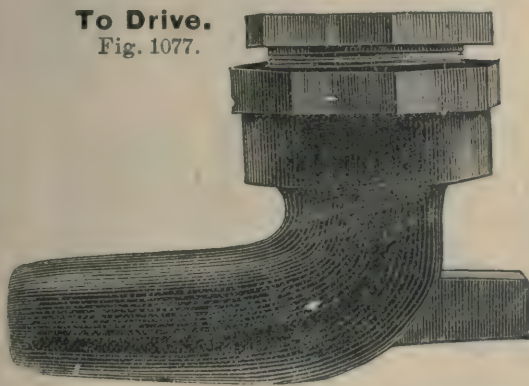
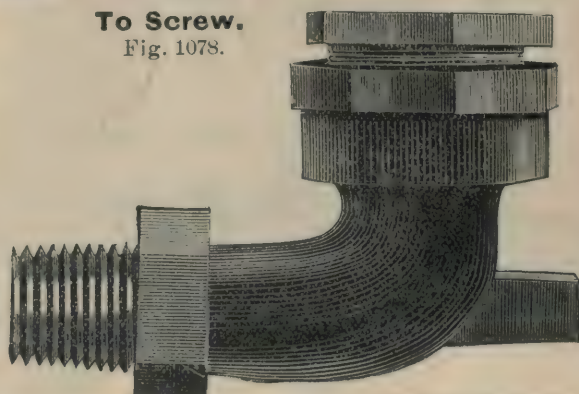


Service Stop Cock.

Fig. 1076.



Nipples for Lead Pipe.

To Drive.
Fig. 1077.To Screw.
Fig. 1078.

Size for Lead Pipe, Inches			$\frac{1}{2}$	$\frac{3}{4}$	1 in.
Fig. 1075.	Compression Service Cock, without Stuffing Box	Price each	1.60	2.25	3.13
" 1075½.	" " " with " "	"	1.85	2.40	3.40
" 1076.	Service Stop Cock	"	95	1.75	2.25
" 1077.	Nipple to Drive	"	48	88	....
" 1078.	" Screw	"	55	1.00	1.40

Corporation Service Brass Work.

Main Cock.

FOR LEAD PIPE. TO DRIVE.—Fig. 1078.

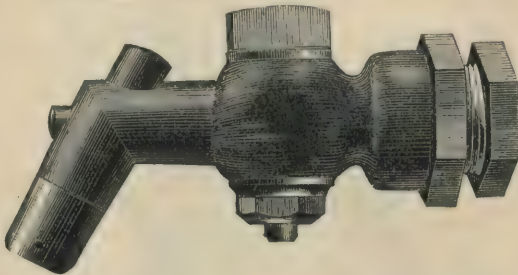
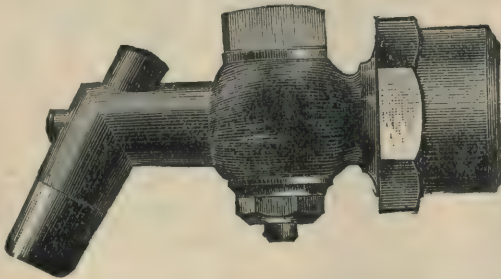
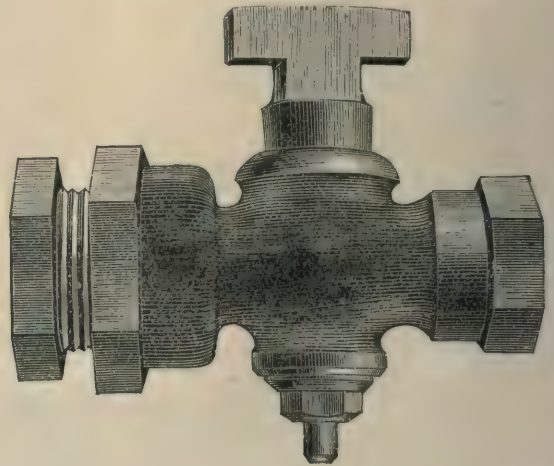


Fig. 1079.



Service Cock.

FOR LEAD AND IRON PIPE.—Fig. 1080.



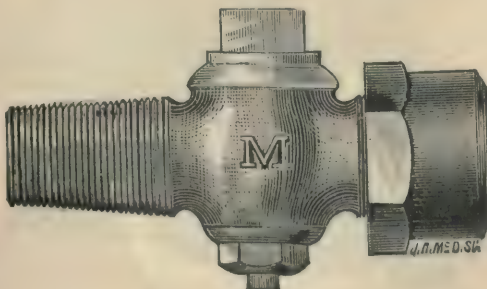
Size of Lead Pipe, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1 in.	$1\frac{1}{4}$ in.
Fig. 1078 and 1079. Main Cock	95	1.15	1.60	2.30	4.00
" 1080. Service Cock	90	1.10	1.50	2.20	3.50

Fig. 1078 and 1079 for 1 in. and $1\frac{1}{4}$ in. are Screwed Nose.

Main Cock.

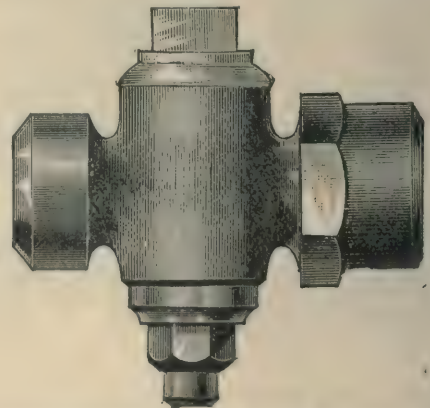
TO SCREW.

FOR LEAD AND IRON PIPE.—Fig. 1081.



Service Cock.

FOR LEAD AND IRON PIPE.—Fig. 1082.



Size of Lead Pipe, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1 in.	$1\frac{1}{4}$
Fig. 1081. Main Cock	75	1.00	1.20	2.00	3.00
" 1082. Service Cock	80	1.10	1.30	2.30	4.00

Corporation Service Brass Work.

Main Cock, to Screw.

FOR LEAD PIPE.

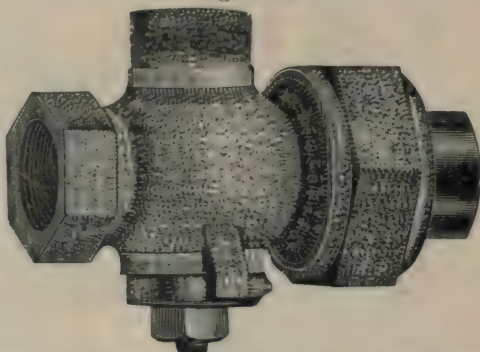
Fig. 1084.



Service Stop Cock.

FOR LEAD AND IRON PIPE.

Fig. 1085.



Size of Lead or Iron Pipe	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 1084. Main Cock	70	75	1.00	1.20	2.00
" 1085. Service Cock	70	75	1.00	1.20	2.00

Quebec Service Brass Work.

Street, or Main Cock, Old Pattern.

Fig. 1086.



Service, or Cellar Cock.

Fig. 1087.



Street, or Main Cock, New Pattern.

Fig. 1088.



Size of Lead Pipe	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 1086. Main Cock, Old Pattern	93	1.25	1.75
" 1087. Service, or Cellar Cock	88	1.20	1.60
" 1088. Main Cock, New Pattern	88	1.20	1.60

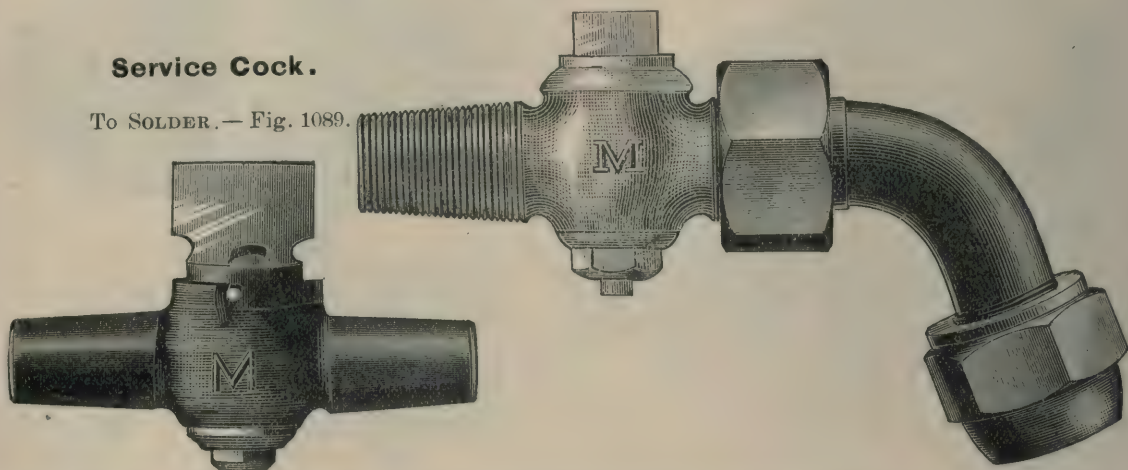
Corporation Service Brass Work.

Main Cock, with Bent Tail and Union.

FOR LEAD PIPE.—Fig. 1090.

Service Cock.

TO SOLDER.—Fig. 1089.



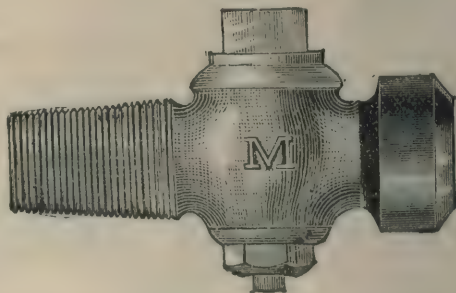
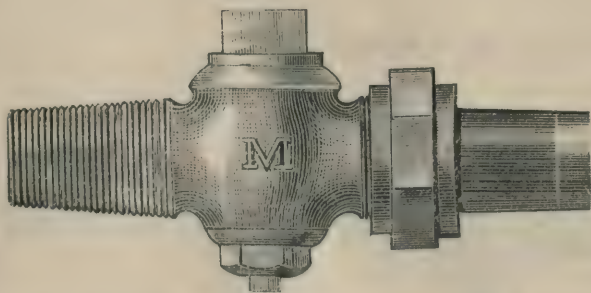
Size of Lead Pipe		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 1089. Service Cock	price each	.70	.90	1.10	1.90
" 1090. Main Cock	" "	.84	.95	1.08	....

Main Cock, Straight Tail.

TO SOLDER.—Fig. 1091.

Main Cock.

FOR IRON PIPE.—Fig. 1092.



Size Lead or Iron Pipe		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 1091. Main Cock, to Solder	price each	.75	1.00	1.20	2.00
Fig. 1092. Main Cock, for Iron Pipe	" "	.70	.90	1.10	1.90

Corporation Service Brass Work.

Main Cocks.

THREADED FOR WATER MAIN TAPPING MACHINES.
FITTED FOR SCREW OR HEXAGON PLUG.

Fig. 1093.



Fig. 1094.—FOR HEXAGON PLUG.

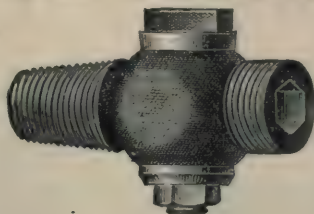
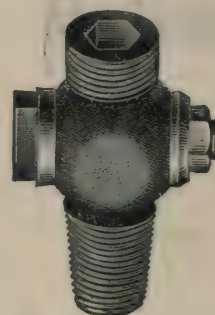
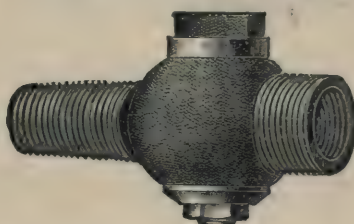
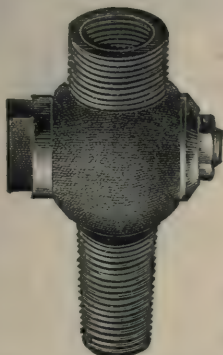


Fig. 1096.



Fig. 1095.—FOR SCREW.



Figs. 1093 and 1095 are for Mueller or Payne Machine.

Figs. 1094 and 1096 are for Hall Machine.

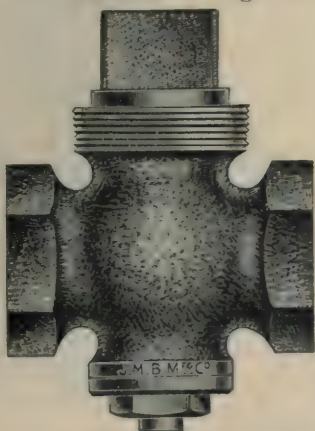
Bent or Straight Coupling
Fitted for Screw.

Bent or Straight Coupling
Fitted for Hexagon Plug.

Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Figs. 1093 and 1096. With Couplings Price each	75	1.00	1.20	2.00
" 1094 and 1095. Without Couplings "	60	80	1.00	1.75

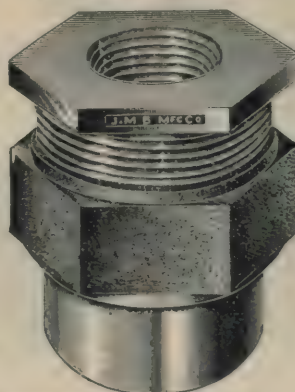
Curb Cock.

FOR IRON PIPE.—Fig. 1097.



Couplings.

FOR LEAD AND IRON PIPE. LOOSE TAIL PIECE.
Fig. 1098.

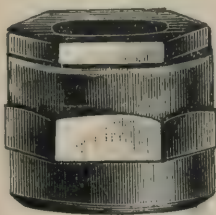


Size Iron Pipe, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 1097. Round Way Price each	90	.....	1.40	.....
" Oblong Way "	70	.....	1.00	.....
" 1098. Couplings with Loose Tails "	30	40	45	55

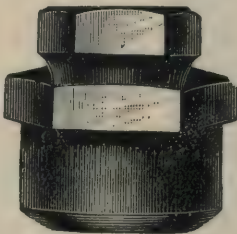
Corporation Service Brass Work.

Couplings.

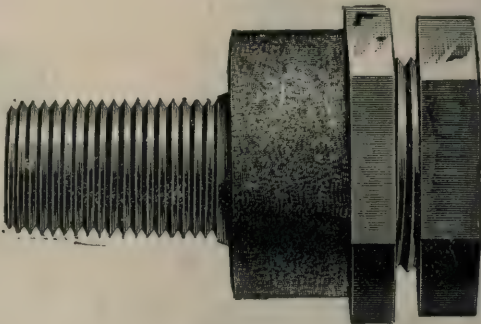
FOR LEAD PIPE.
Fig. 1099.



FOR LEAD & IRON PIPE.
Fig. 1100.



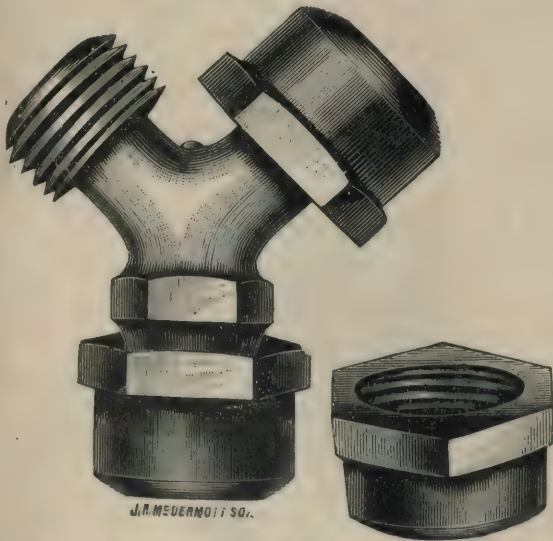
FOR LEAD & IRON PIPE.
Fig. 1101.



Size Lead or Iron Pipe, inches		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 1099	Price each.	28	35	35	50
" 1100	" "	30	40	40	55
" 1101	" "	36	50	50	70

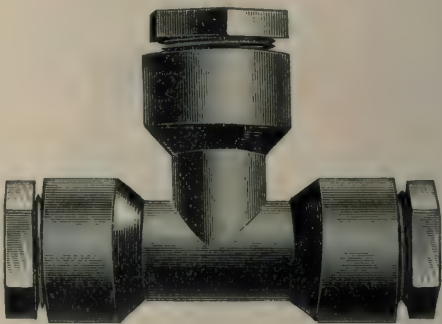
3 Way or Y Piece.

FOR LEAD OR IRON PIPE.—Fig. 1102.



3 Way or T Piece.

FOR LEAD OR IRON PIPE.—Fig. 1103.

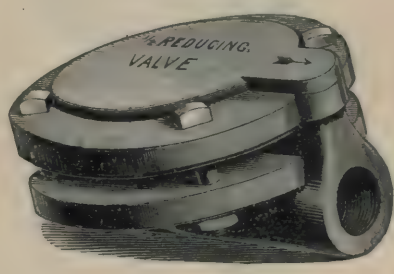


Size, Lead or Iron Pipe, inches		$\frac{3}{8} \times \frac{1}{2}$	$\frac{1}{2} \times \frac{5}{8}$	$\frac{1}{2} \times \frac{3}{4}$
Fig. 1102, for Lead Pipe,	Price each	60	96	
" 1102, " Iron "	" "	.....	.....	90
" 1103, " Lead "	" "	.....	.....	88
" 1103, " Iron "	" "	.....	.....	75

Corporation Service Work.

Reducing Pressure Regulator.

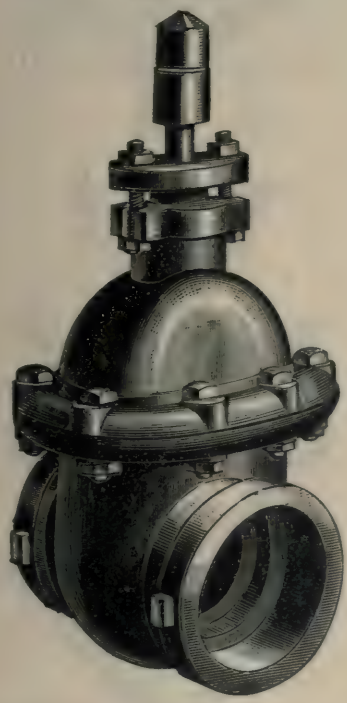
Fig. 1104.



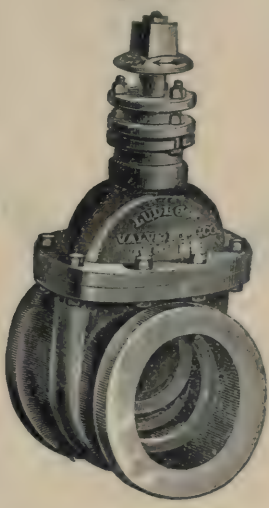
Reducing Pressure Regulator, reducing one-half \$7.00

Water Gates, or Stop Valves For Water Mains.

TORONTO PATTERN.
Fig. 1105.



LUDLOW PATTERN.
Fig. 1106.



WEBBER PATTERN.
Fig. 1107.



Size, Inches				3	4	6	8	10	12
Fig. 1105.	Toronto Pattern		price each	16.80	20.80	28.80	42.50	62.50	68.80
" 1106.	Ludlow "		"	.....	17.00	28.00	42.00	58.00	76.00
" 1107.	Webber "		"	15.00	19.00	30.00	42.00	60.00	80.00

Corporation Service Work.

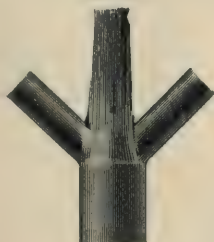
Brass Water Connections.

Fig. 1108.

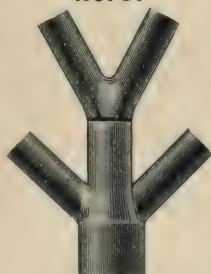
No. 1.



No. 2.



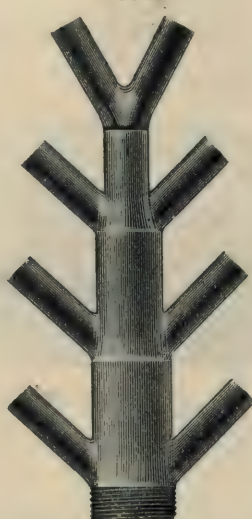
No. 3.



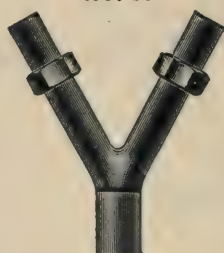
No. 4.



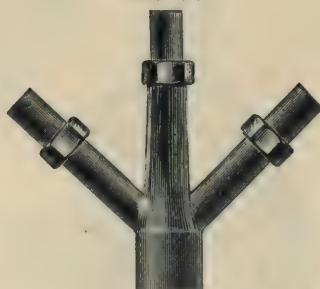
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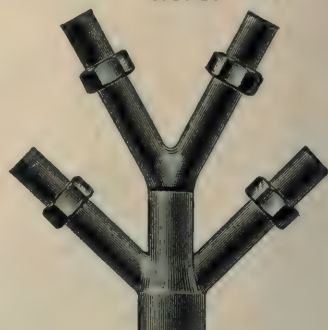
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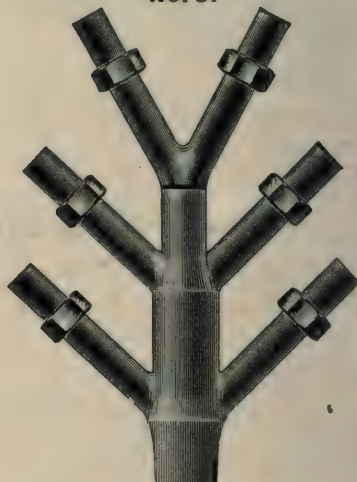
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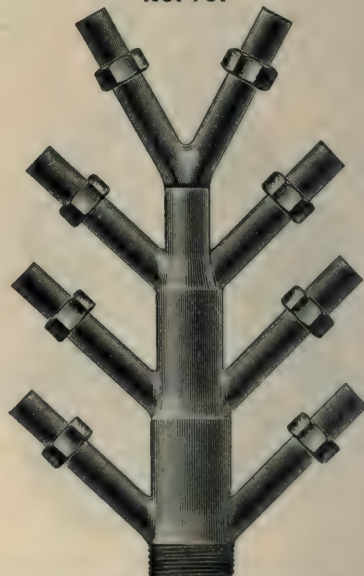
No. 8.



No. 9.



No. 10.



Number	WITHOUT UNION COUPLING.					WITH UNION COUPLING.				
	1	2	3	4	5	6	7	8	9	10
Size of Outlets, L. or I. Pipe	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Price Each	1.50	2.00	3.00	6.00	9.00	3.00	4.50	6.00	8.00	12.00

Outlet sent for Iron Pipe unless otherwise ordered.

Corporation Service Work.

Branch Goose Necks.

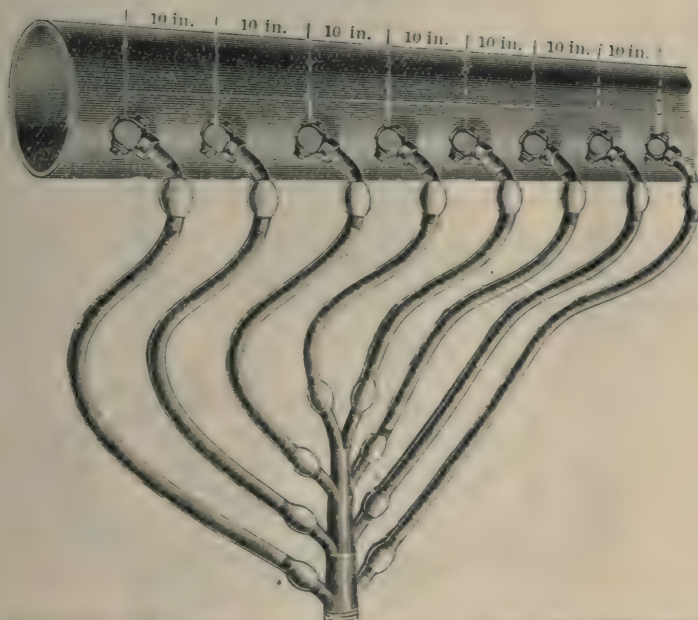
SINGLE.—Fig. 1109.



Fig. 1110.—2 BRANCH.



Fig. 1111.—3 BRANCH.

1, 6 OR 8 BRANCH.
Fig. 1112.2 TO 8 BRANCH WITH UNION.
Fig. 1112½.

Number of Branches	Fig. 1109. SINGLE.	Fig. 1110. 2 BRANCH.	Fig. 1111. 3 BRANCH.	Fig. 1112. 4 BRANCH.	Fig. 1112. 6 BRANCH.	Fig. 1112. 8 BRANCH.
Size of Outlet for L. or I. Pipe	As Ordered	1 1/4"	1 1/2"	2"	2 1/2"	3"
Size of Cocks and Lead Pipe		1"	1 1/2"	1"	1 1/2"	1"
Price Each, Complete, without Union	On Application	8.00	11.00	15.00	24.00	37.00
" " " with Union Fig. 1112½		9.50	13.50	18.00	28.00	42.00

Outlet sent for Iron Pipe unless otherwise mentioned.

These connections are intended for use where an 1 1/4 to 3 inch Service Pipe is required by Cities or Water Companies who do not allow a larger tap than 1 inch to be made in the main.

The connections should be set about 20 to 36 inches from the Main, according to number of branches, and the distance between taps in Main should be about 10 inches.

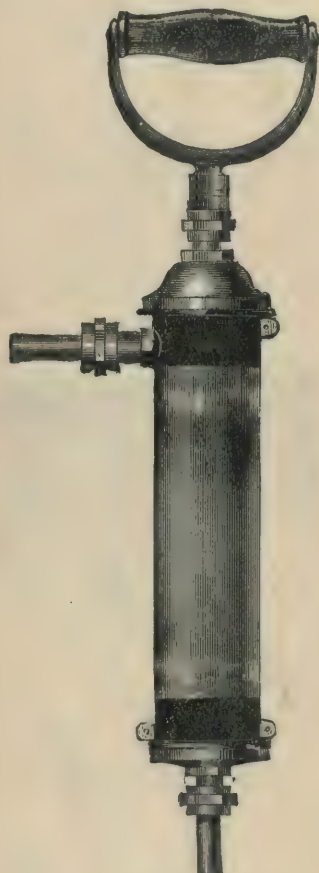
Wherever used they give excellent satisfaction and are a great improvement over the old method of making large connections, and are comparatively cheaper.

Brewers' Supplies.

Beer Pumps.

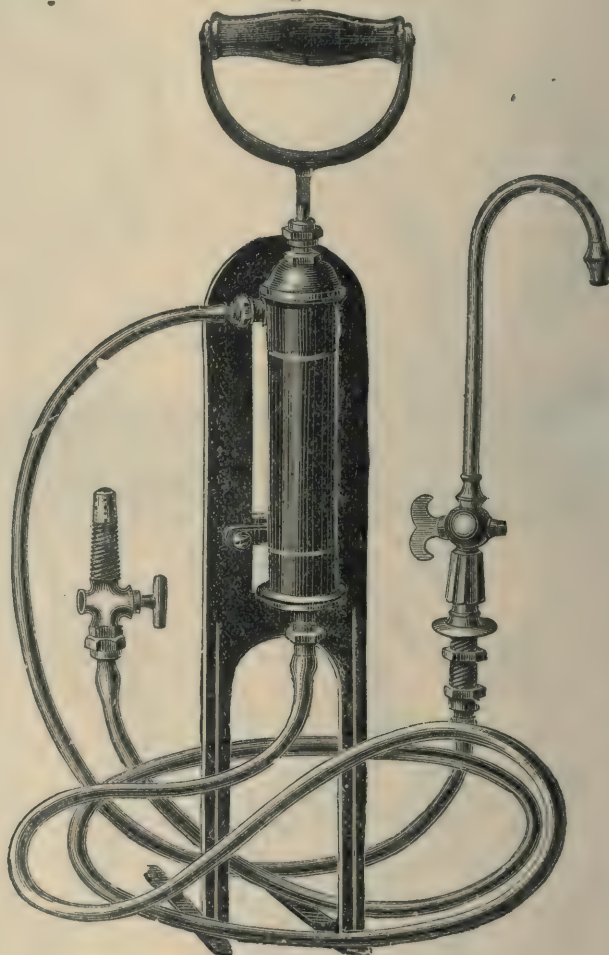
Pump Only.

Fig. 1113.



Complete, on Iron Stand, with Counter Cock, Butt Cock and Lead Pipe.

Fig. 1114.



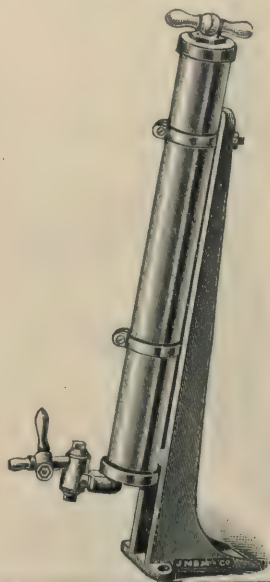
Counter Cocks Finished and Plated.

Beer Pump only, 2½ Cylinder, Fig. 1113, price each	6.00
Beer Pump and Cast Iron Stand only, Fig. 1114, price each	7.00
Beer Pump, complete, with No. 1 Butt Cock, No. 2 Finished Counter Cock, 12 feet ½ in. Lead Pipe, with Couplings attached, without Cast Iron Stand, Fig. 1114, price each	13.50
Beer Pump, complete, with No. 1 Butt Cock, No. 2 Plated Counter Cock, 12 feet ½ in. Lead Pipe, with Couplings attached, without Cast Iron Stand, Fig. 1114, price each	14.00
Beer Pump, complete, with No. 1 Butt Cock, No. 2 Finished Counter Cock, 12 feet ½ in. Lead Pipe, with Couplings attached and Cast Iron Stand, Fig. 1114, price each	14.50
Beer Pump, complete, with No. 1 Butt Cock, No. 2 Plated Counter Cock, 12 feet ½ in. Pipe, with Couplings attached and Cast Iron Stand, Fig. 1114, price each . . .	15.00

Lager Beer Air Pumps.

No. 1, Handle.

Fig. 1117.



No. 2, Lever Handle.

Fig. 1118.

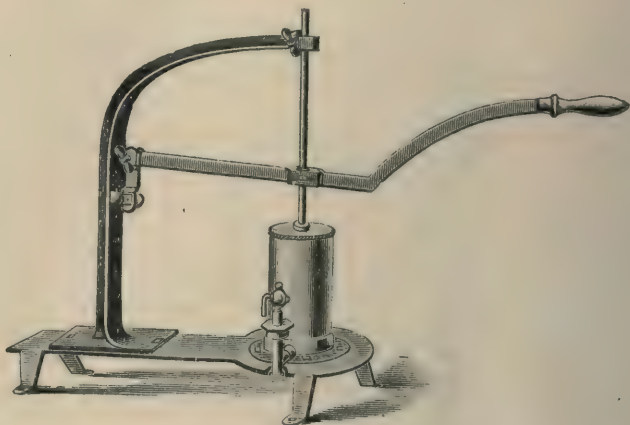


Fig. 1117.	No. 1 Air Pump, $2\frac{1}{4}$ in x 18 in., Brass Cylinder	Price each	8.50
"	1118. No. 2 Air Pump, $3\frac{1}{2}$ in. x 10 in., Brass Cylinder	"	12.00

Beer Pump Handles.

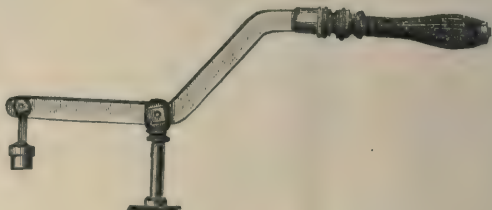
No. 1, Straight Handle.

Fig. 1119.



No. 2, Bent Handle.

Fig. 1120.



Counter Beer Pull.

Fig. 1121.

Fig. 1121 $\frac{1}{2}$.—DECORATED PORCELAIN HANDLE.

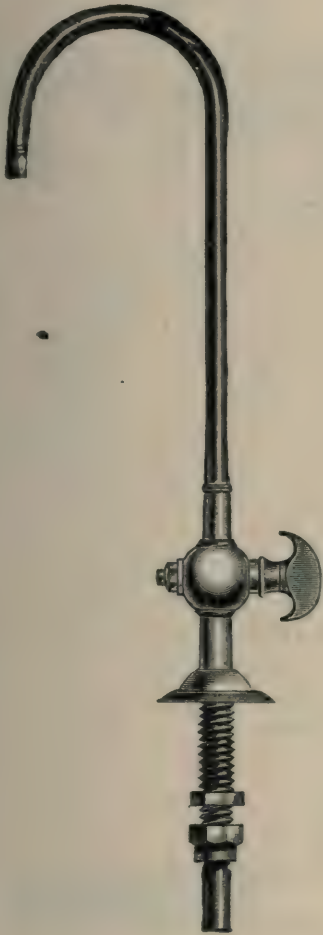
Fig. 1119.	Straight Lever with Wood Handle	Price each	4.00
"	1120. Bent Lever " " "	"	5.00
"	1121. Counter Beer Pull, Decorated Handle	{ Finished " 16.00	
"	1121 $\frac{1}{2}$. Decorated Porcelain Handles only	{ N. Plated " 18.00	
		"	2.50

Counter Cocks.

Fig. 1122.

Fig. 1123.

Fig. 1124.



No. 1.



No. 2.



No. 3.

With T or Lever Handle.

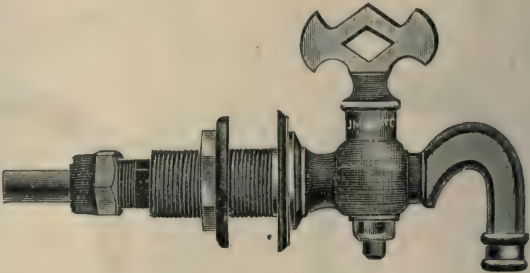
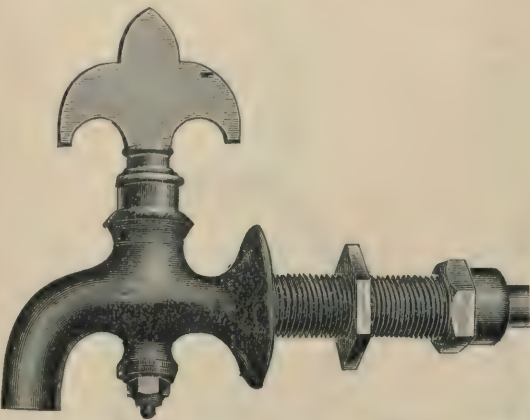
Number		1	2	3
Finished	Price each	2.17	2.50	2.84
Nickle Plated	"	2.50	2.84	3.17
Silver Plated	"	3.25	3.66	4.00

Beer Bibbs.

With Flange Nut and Coupling, T Handle.

No. 1, PLAIN. Fig. 1125.

No. 2, FANCY. Fig. 1126.



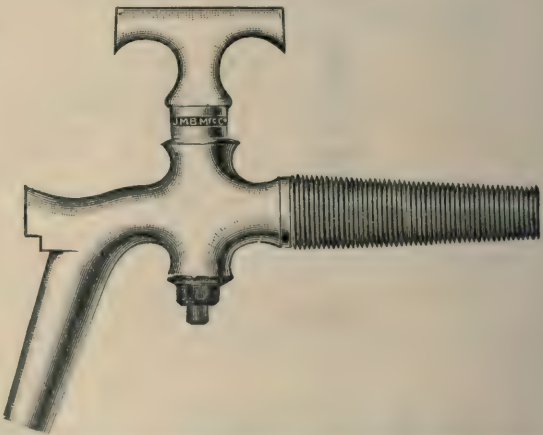
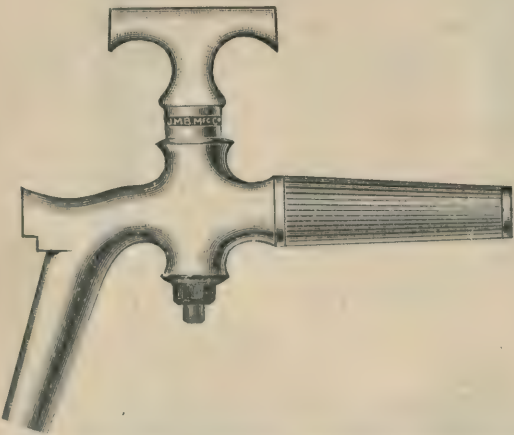
Size, Inches						$\frac{3}{8}$	$\frac{1}{2}$
Fig. 1125.	Finished.	-	-	-	Price per dozen	21.00	27.00
"	1125. Nickel Plated	-	-	-	" "	24.00	30.00
"	1126. Finished	-	-	-	" "	....	42.00
"	1126. Nickel Plated	-	-	-	" "	....	48.00

Bottling Cocks.

To Drive and Screw, English Pattern.

To DRIVE. Fig. 1127.

To SCREW. Fig. 1128.



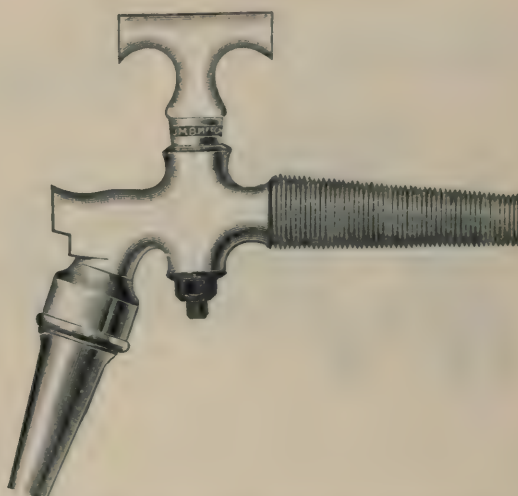
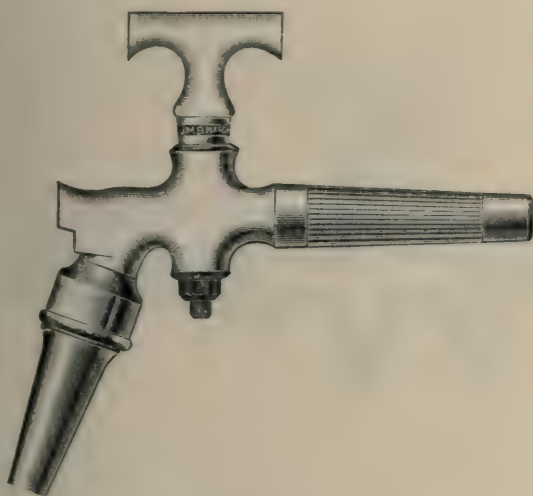
Size, Inches						$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. 1127.	Finished	-	-	-	Price per dozen	9.00	12.00	14.00	20.00
"	1127. Nickle Plated	-	-	-	" "	12.00	15.00	18.00	24.00
"	1128. Finished	-	-	-	" "	10.00	13.50	16.00	23.00
"	1128. Nickle Plated	-	-	-	" "	13.00	16.50	20.00	27.00

Bottling Cocks with Screwed Nose.

T Handle

Fig. 1129.—To DRIVE.

Fig. 1130.—To SCREW.

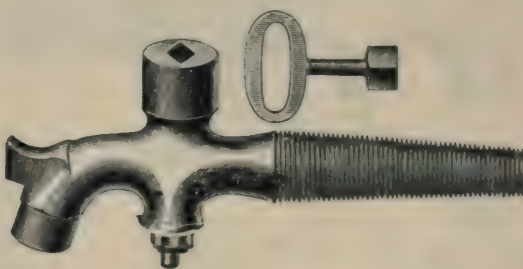
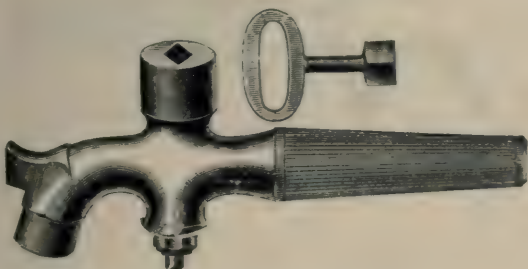


Size			$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 1126. Finished		price	22.00	28.00	34.00	
" 1126. Nickel Plated		"	26.00	32.50	39.00	
" 1127. Finished		"	23.00	29.50	36.00	
" 1127. Nickel Plated		"	27.00	34.00	41.00	
With 8 in. Tail to Drive for Brewers' use						price each 5.50

Lock Cocks with Keys.

Fig. 1131.—To DRIVE.

Fig. 1132.—To SCREW.

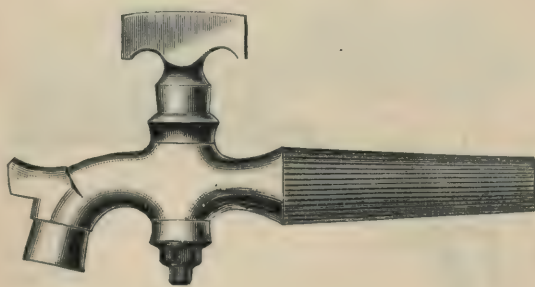


Size				$\frac{7}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
" 1128.	"	with Nut and Washer	price per doz.	10.00	13.50	18.00	22.00	37.00
" 1129.	"	with Nut and Washer	" "	10.50	14.50	19.50	24.00	39.50

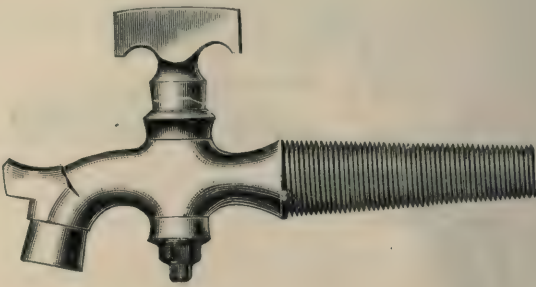
Racking Cocks.

T Handle.

To DRIVE.—Fig. 1133.



To SCREW.—Fig. 1134.

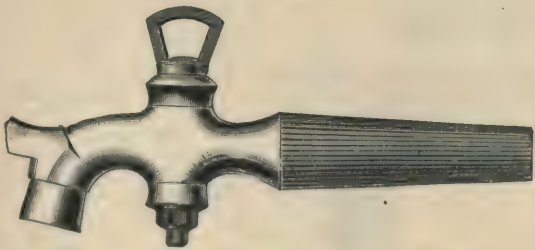


Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
" 1133. Finished, with Nut and Washer	9.00	11.50	16.00	19.00	32.00
" 1134. " with Nut and Washer	9.50	12.50	17.50	21.00	34.50

Racking Cocks.—To DRIVE.

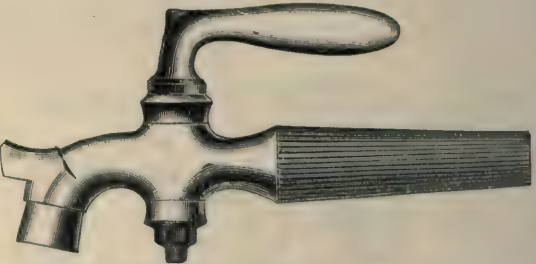
With Open or Square Head.

Fig. 1135.



With Lever Handle.

Fig. 1136.



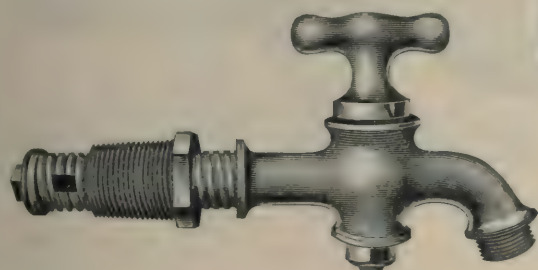
Size	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1135. Open Head, Rough	30.00	52.00	83.00	160.00
" 1135. " " Finished	34.00	60.00	95.00	180.00
" 1135. Square Head, Rough	30.00	52.00	83.00	160.00
" 1135. " " Finished	34.00	60.00	95.00	180.00
" 1136. Lever Handle, Rough	32.00	54.50	87.50	165.00
" 1136. " " Finished	36.00	69.00	100.00	204.00

Brewers' Racking Cocks.

Racking Cock and Valve.

T HANDLE.

Fig. 1137.



RACKING VALVE.

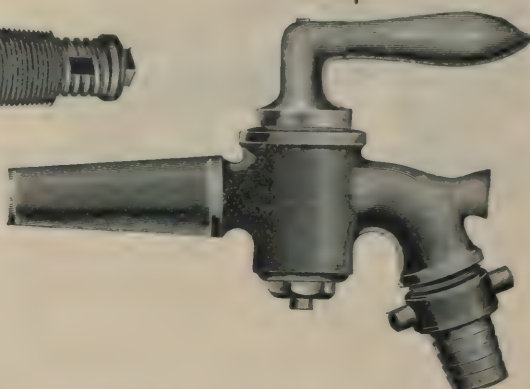
Fig. 1138.



Racking Cock with Screwed Nose.

L HANDLE, TO DRIVE.

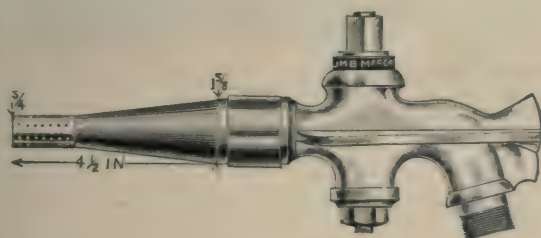
Fig. 1139.



Size, Inches		1	1 1/4	1 1/2	2
Fig. 1137. Racking Cock without Valve, Finished,	price each	5.00	10.00	.....	.....
" 1137. " " with " "	"	7.00	14.00	.....	.....
" 1138. Racking Valve, Rough, N. Plated	"	2.00	4.00	.....	.....
" 1139. Rough, without Hose Coupling	"	3.00	5.75	8.50	17.00
" 1139. " with Hose " "	"	3.30	6.25	9.50	18.00

New Pattern Racking Cock Sq. or Lever Handle.

TO DRIVE.—Fig. 1140.



Three Way Barreling Cock.

Fig. 1141.

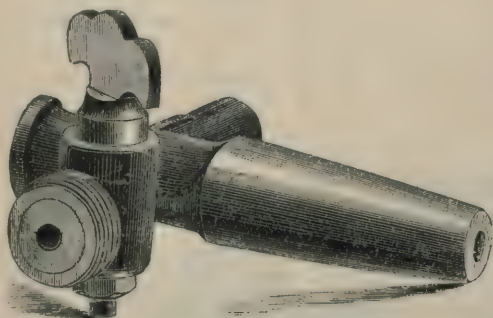


Size, Inches		1	1 1/4	1 1/2	2
Fig. 1140. Rough Sq. Head	price each	4.00	6.75	10.00	.....
" 1140. " L. Handle	"	4.30	7.20	10.50	.....
" 1141. " 3 Way Barreling Cock	"	16.00	.....	.....	.....

Lager Beer Cocks.

To Drive, with Side Key.

Fig. 1142.



With Coupling Ring.

Fig. 1143.

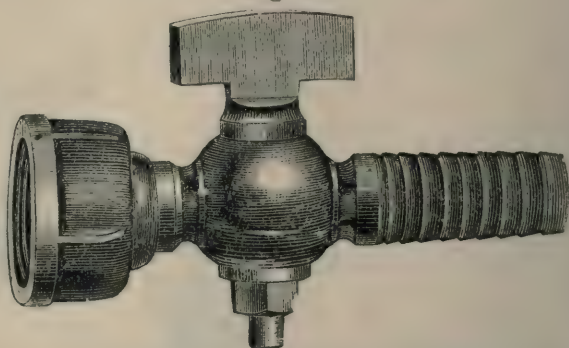
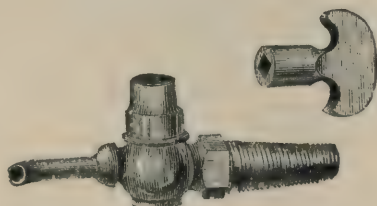


Fig. 1142. Rough,	Price each	2.45
" 1143. " "	"	1.25
" 1142 and 1143 combined,	"	3.70

Ale and Lager Beer Try Cock.

Fig. 1144.



Lager Beer Air Vent.

Fig. 1145.

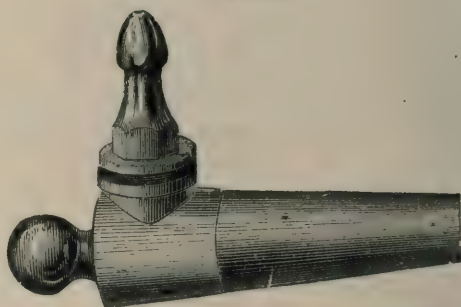
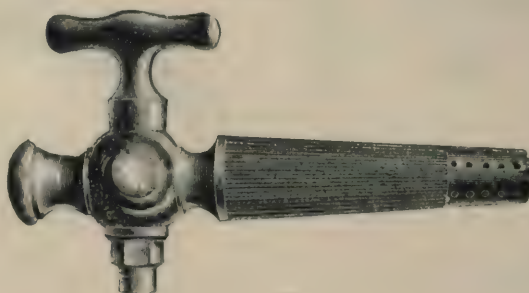


Fig. 1144. Try Cocks with Keys, Rough	Price each	1.25
" 1145. Lager Beer Air Vent " "	"	1.50

California Ale Cock.

Fig. 1146.



Finished

Price each, 2.50

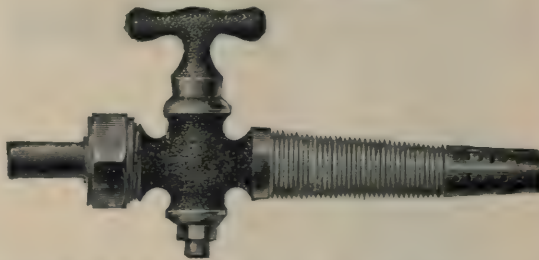
Butt or Barrel Cocks, with Couplings.

No. 1. To Drive or Screw.

Fig. 1147.—To Drive.



Fig. 1148.—To Screw.



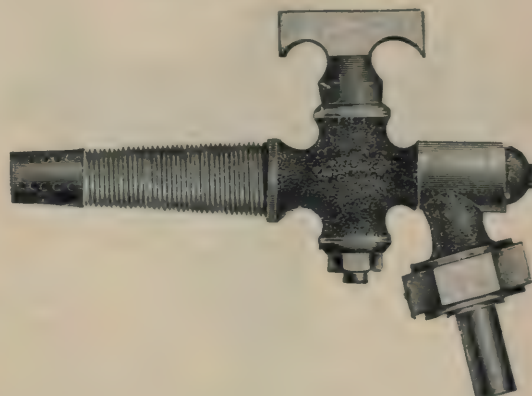
Number		1	1A	1B
Diameter of Shank, Tapering from		1 1/4" to 3/4"	1 3/8" to 7/8"	1 7/8" to 1 1/8"
Fig. 1147. To Drive	Price per Dozen	20.00	21.00	32.00
" 1148. To Screw	"	21.00	22.00	34.00

No. 2. To Drive or Screw.

Fig. 1149.—To Drive.



Fig. 1150.—To Screw.



Diameter of Shank, Tapering from		1 3/8" to 7/8"
Fig. 1149. To Drive	Price per Dozen	27.00
" 1150. To Screw	"	28.00

Butt or Barrel Cocks.

No. 3. To Drive or Screw.

Fig. 1151.—To Drive.

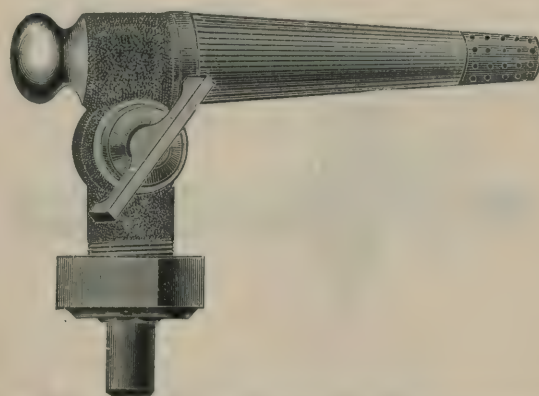
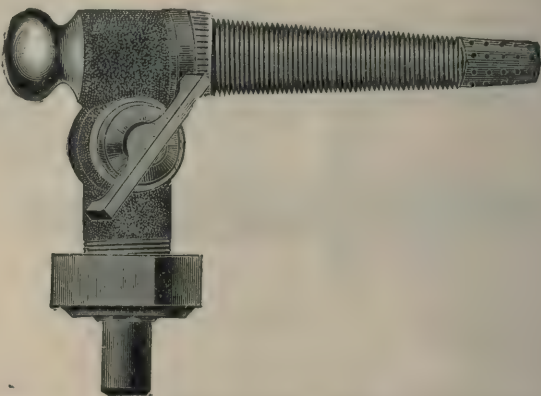


Fig. 1152.—To Screw.



Diameter of Shank, Tapering from		$1\frac{3}{8}"$ to $\frac{7}{8}"$
Fig. 1151. To Drive	Price per dozen	36.00
" 1152. To Screw	" "	38.00

No. 4. Butt or Barrel Cock, with Double Side Key.

Fig. 1153.—To Drive.



Fig. 1154.—To Screw.



Diameter of Shank, Tapering from		$1\frac{3}{8}"$ to $\frac{7}{8}"$
Fig. 1153. To Drive	Price per dozen	60.00
" 1154. To Screw	" "	62.00

Urns, Urn Gauges and Urn Cocks.

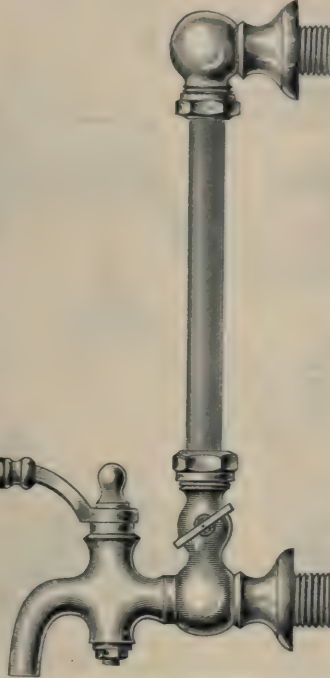
Urn Gauge, T H.

Fig. 1155.



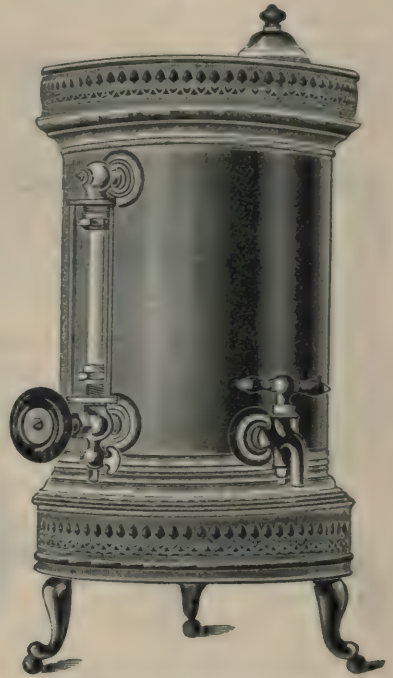
Urn Gauge, L H.

Fig. 1156.



Urn.

Fig. 1157

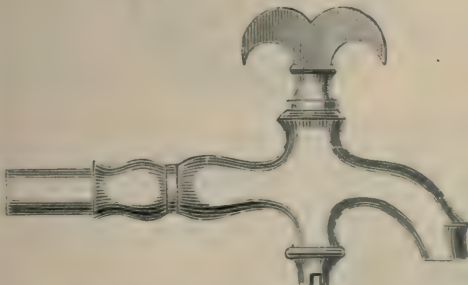


							Finished.	N. Plated.
Fig. 1155.	T Handle Urn Gauge and Cock,	in.	.....	Price each			2.25	2.50
" 1156.	L " " " " "	in.	.....	"			4.75	5.00
" 1156.	L " " " " "	in.	.....	"			5.50	5.75
							For Gas.	For Coal Oil.
Fig. 1157.	Tea, Coffee, or Water Urn, N. Plated, 2 gal..	Price each					15.00	17.00
" 1157.	" " " " " " " 3 gal..	"					17.00	19.50
" 1157.	" " " " " " " 4 gal..	"					23.00	26.00
" 1157.	" " " " " " " 5 gal..	"					29.00	32.00

Urn Cocks.

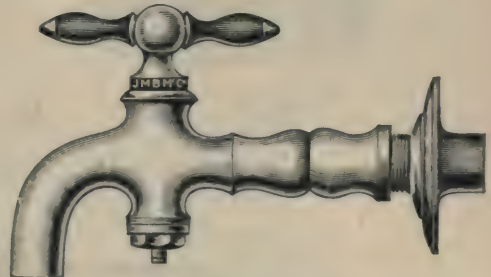
T Handle, to Solder.

Fig. 1158.



T Handle, Flange and Thimble.

Fig. 1159.

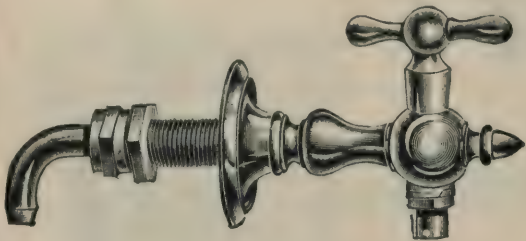


		Polished Brass.			N. Plated.		
Size, Inches		3/8	1/2	3/4	3/8	1/2	3/4
Fig. 1158.	T Handle, to Solder	12.00	.....	.....	14.00	.....	.....
" 1159.	T " " " " " " "	14.00	20.00	23.50	16.00	22.50	26.50
" 1159.	T " Loose Flange	16.00	23.00	27.00	18.00	26.00	31.00

Lager Beer Faucets.

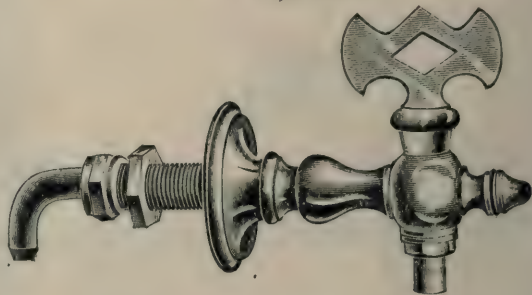
No. 1, Plain T Handle.

Fig. 1160.



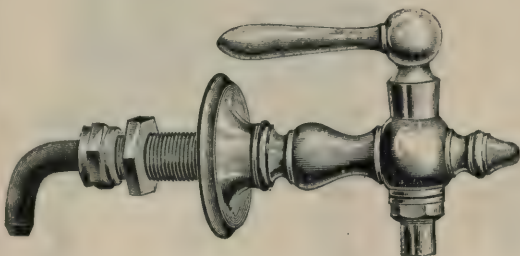
No. 2, Fancy T Handle.

Fig. 1161.



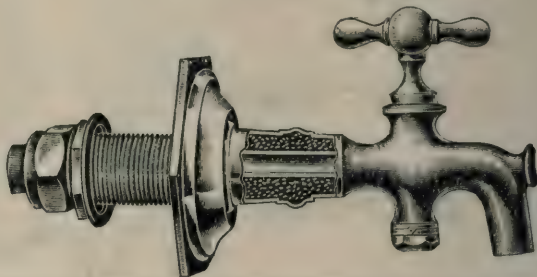
No. 3, Plain L Handle.

Fig. 1162.



No. 4, T Handle.

TIN LINED.—Fig. 1163.



DESCRIPTION.	2 IN. SHANK.		5 IN. SHANK.	
	POLISHED BRASS.	NICKEL PLATED.	POLISHED BRASS.	NICKEL PLATED.
Fig. 1160, No. 1	5.40	5.75	5.75	6.15
" 1161, " 2	5.40	5.75	5.75	6.15
" 1162, " 3	5.40	5.75	5.75	6.15
" 1163, " 4	9.00	9.45	9.35	9.80

Block Tin Pipe.

Fig. 1164.



Air Pressure Gauge.

Fig. 1165.



Bung and Draft Tube.

Fig. 1166.

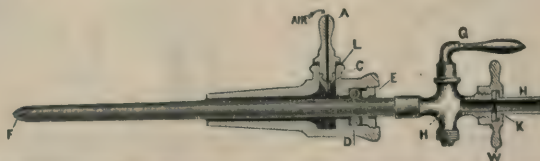
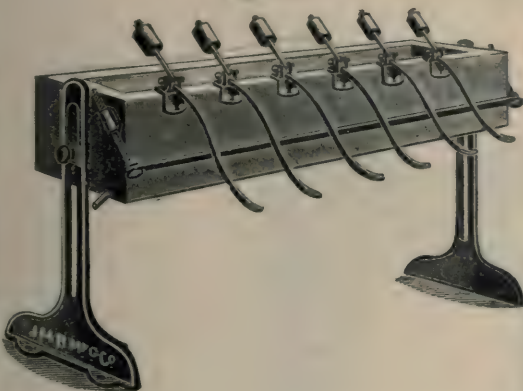


Fig. 1164. Block Tin Beer Pipe, $\frac{3}{8}$ and $\frac{1}{2}$	Price per lb. Market Price	
" 1165. $2\frac{1}{2}$ in. Air Pressure Gauges, Brass Case, Finished	Price each	6.00
" 1165. 4 in. " " " Iron Case	"	4.00
" 1166. Bung and Draft Tube, Complete	"	5.00

Brewers' Sundries.

Bottling Machine.

Fig. 1167.



Hand Corking Machines.

Fig. 1168.



Fig. 1169.



Fig. 1170.



Bung Driver.

Fig. 1171.



DESCRIPTION.	4 SPOUT.	6 SPOUT.	8 SPOUT.	
Fig. 1167, Bottling Machine, price each	24.00	36.00	48.00	.....
Hand Corking Machine.....Price each		FIG. 1168. 7.00	FIG. 1169. 7.00	FIG. 1170. 7 00
Fig. 1171. Bung Driver, Malleable Iron, Tinned.....Price each	50 cents.			

Improved Self-Closing Rinsers.

Fig. 1172.



DESCRIPTION.	No. of Bottles	4	5	6	12				
Price each		7.00	8.50	10.00	20.00	....	....	....	....

Hand and Foot Rails.

FOR SALOONS, ETC.—Fig. 1173.



Prices on Application.

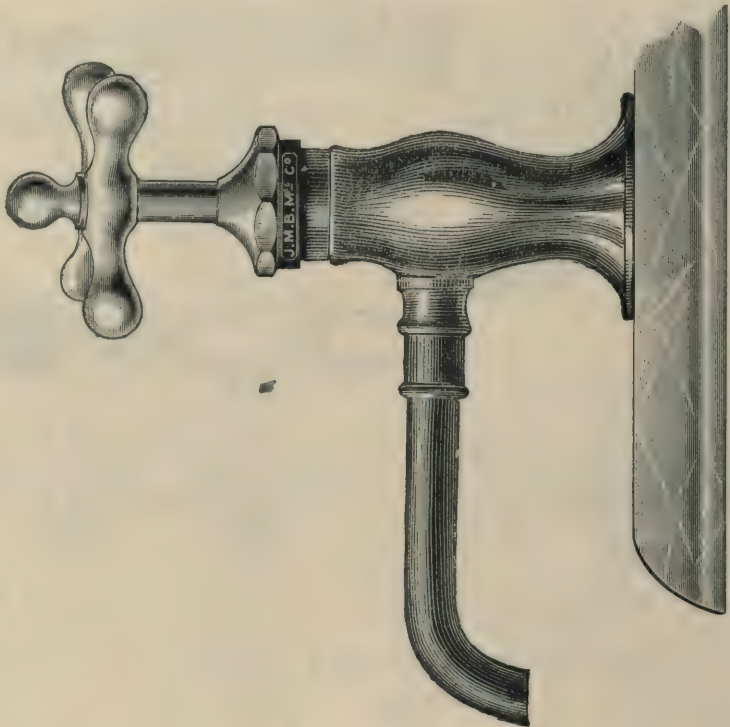
Basin Cocks and Basin Fittings.

Compression Basin Cock.

No. 0.—WITHOUT STUFFING BOX.

WITH CROSS HANDLE.

Fig. 1175.

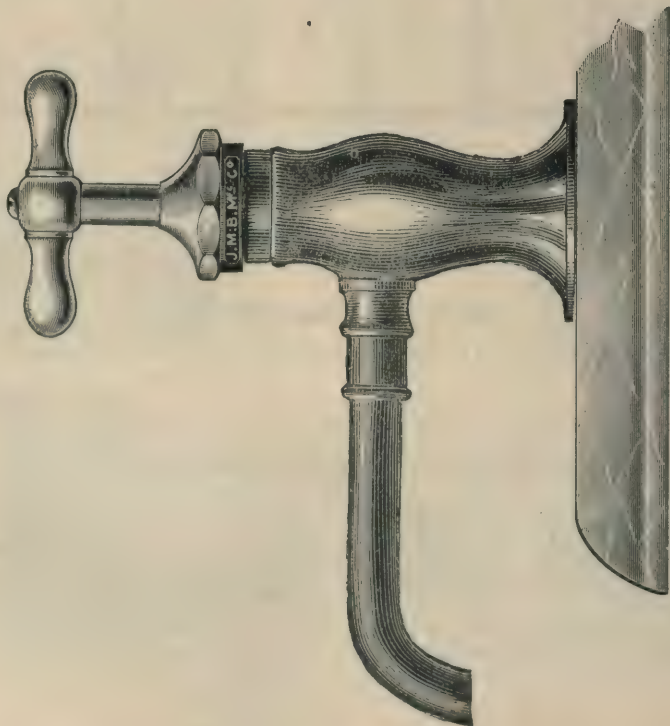


No. 0.—Cross Handle.

Finished.....	Price per dozen	18.00
Nickel Plated.....	"	21.00

WITH T HANDLE.

Fig. 1174.



No. 0.—T Handle.

Finished.....	Price per dozen	16.00
Nickel Plated.....	"	19.00

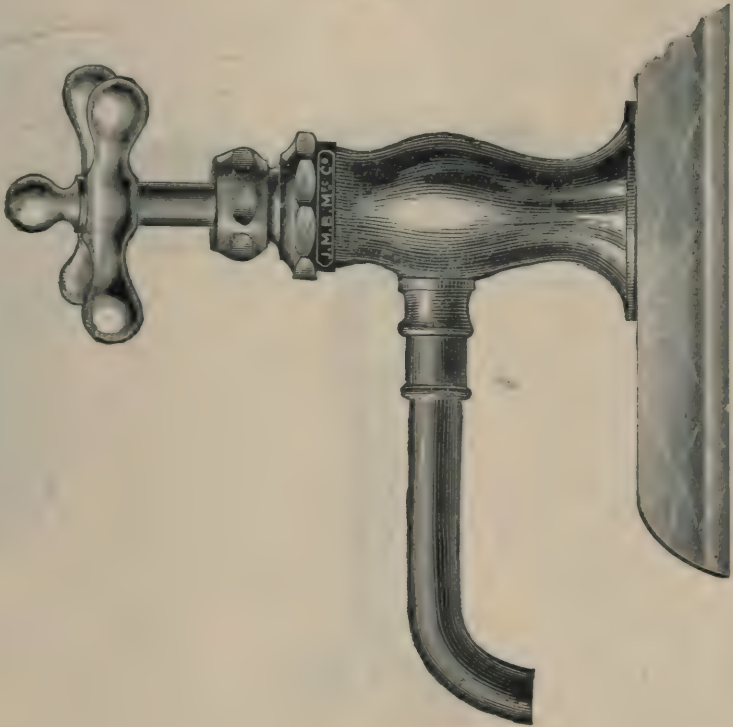
Compression Basin Cock.

With Stuffing Box.

No. 0.

X HANDLE.

Fig. 1175½.

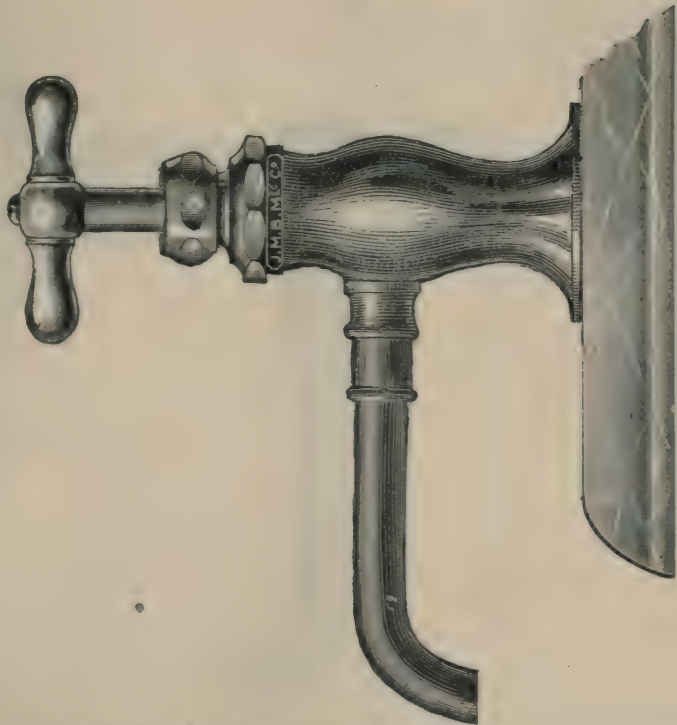


Finished.....Price per dozen 20.00

Nickel Plated..... " 24.00

T HANDLE.

Fig. 1174½.



Finished.....Price per dozen 18.00

Nickel Plated..... " 21.00

Compression Basin Cocks.

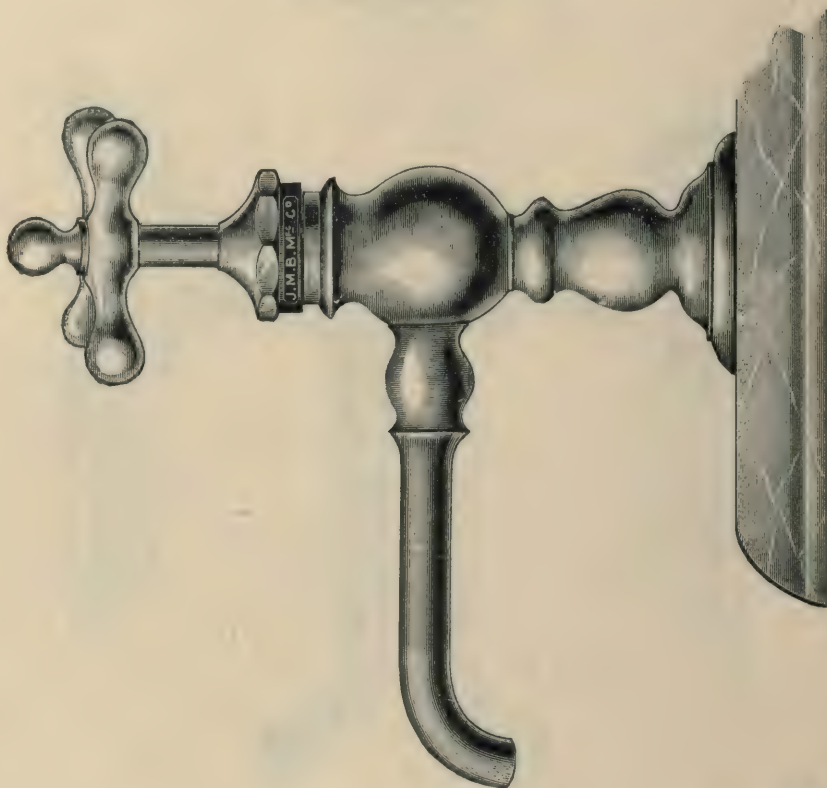
Without Stuffing Box.

No. 1.

X Handle.

WITHOUT STUFFING BOX.

Fig. 1177.



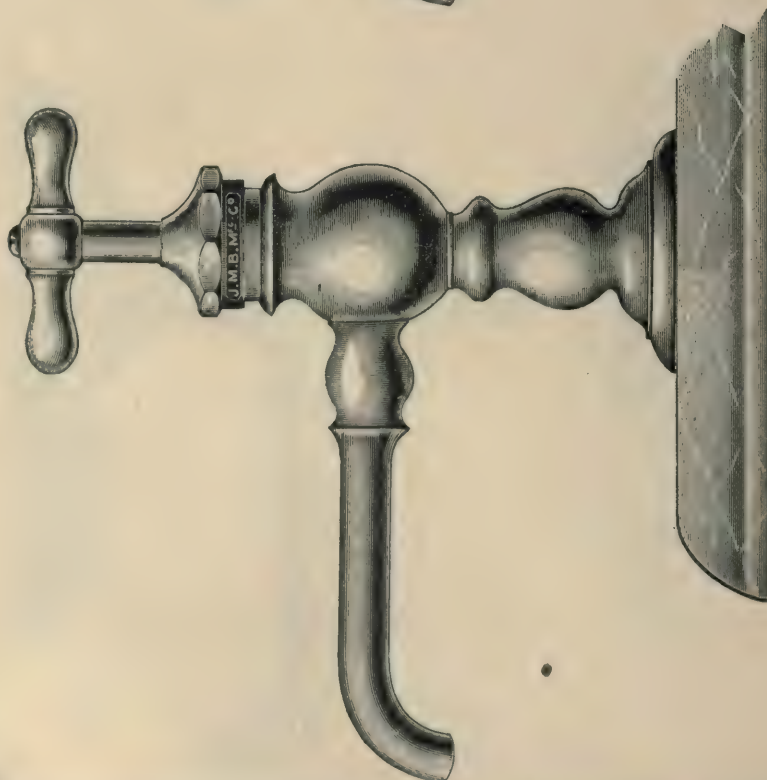
Polished.....Price per dozen 20.00

Nickel Plated.....“ “ 24.00

T Handle.

WITHOUT STUFFING BOX.

Fig. 1176.



Polished.....Price per dozen 18.00

Nickel Plated.....“ “ 21.00

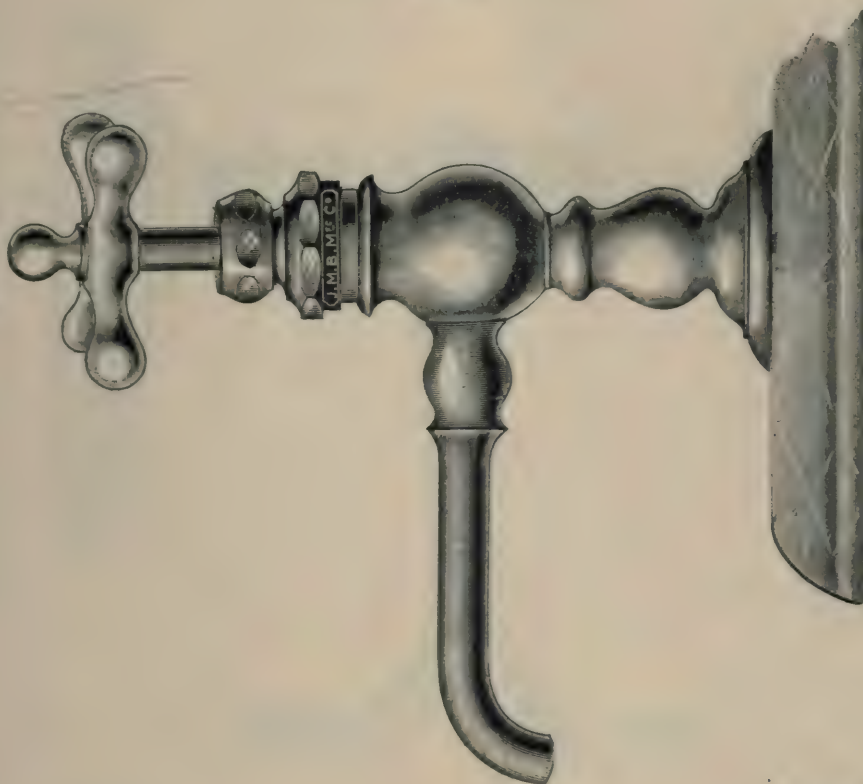
Compression Basin Cocks.

With Stuffing Box.

No. 1.

X HANDLE.

Fig. 1179.

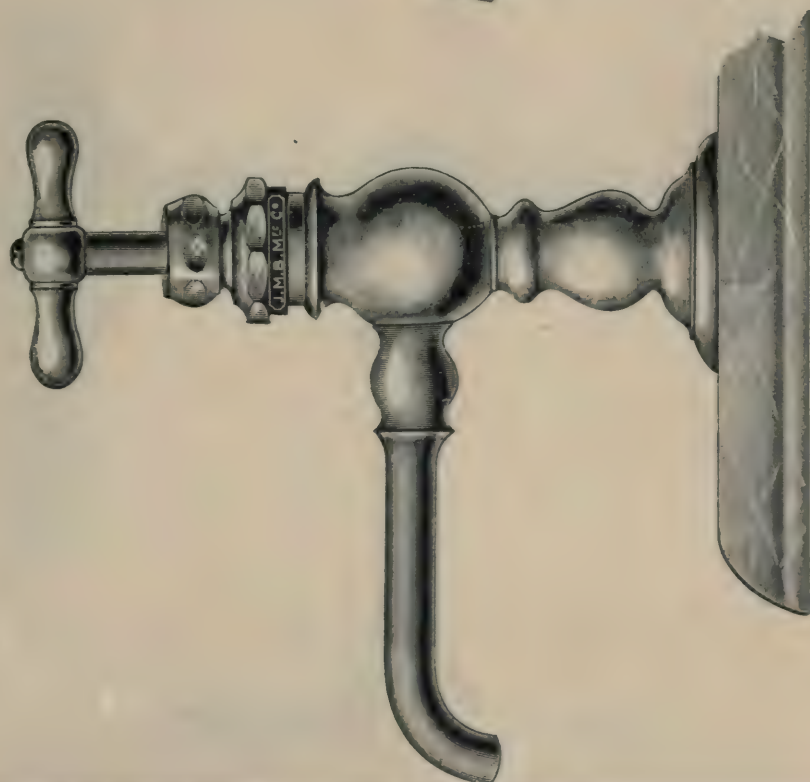


Finished Price per dozen 22.00

Nickel Plated " 26.00

T HANDLE.

Fig. 1178.



Finished Price per dozen 20.00

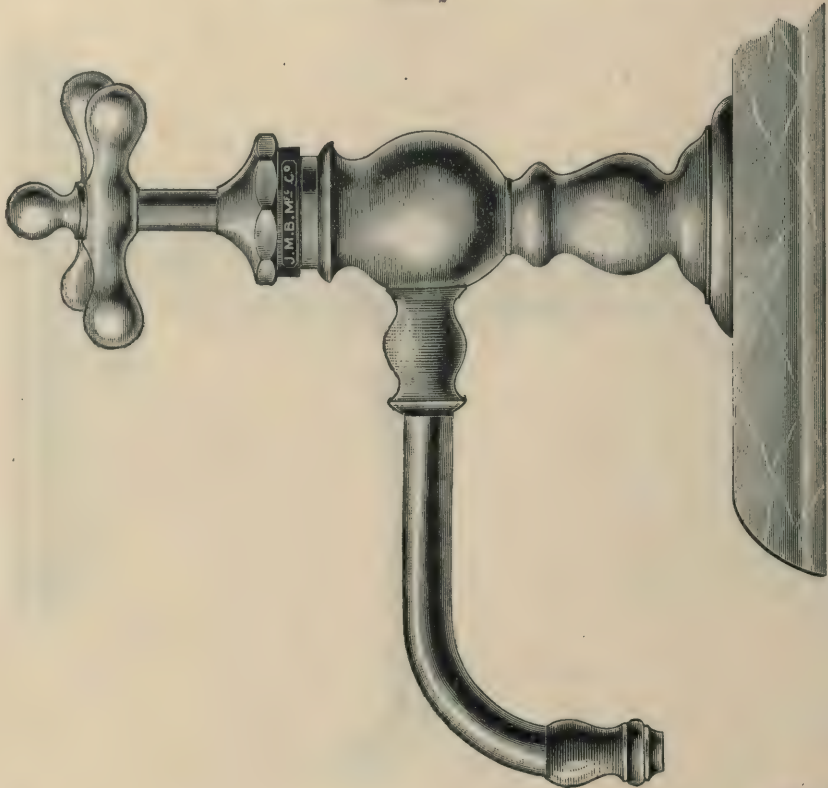
Nickel Plated " 24.00

Compression Basin Cocks.

Without Stuffing Box.

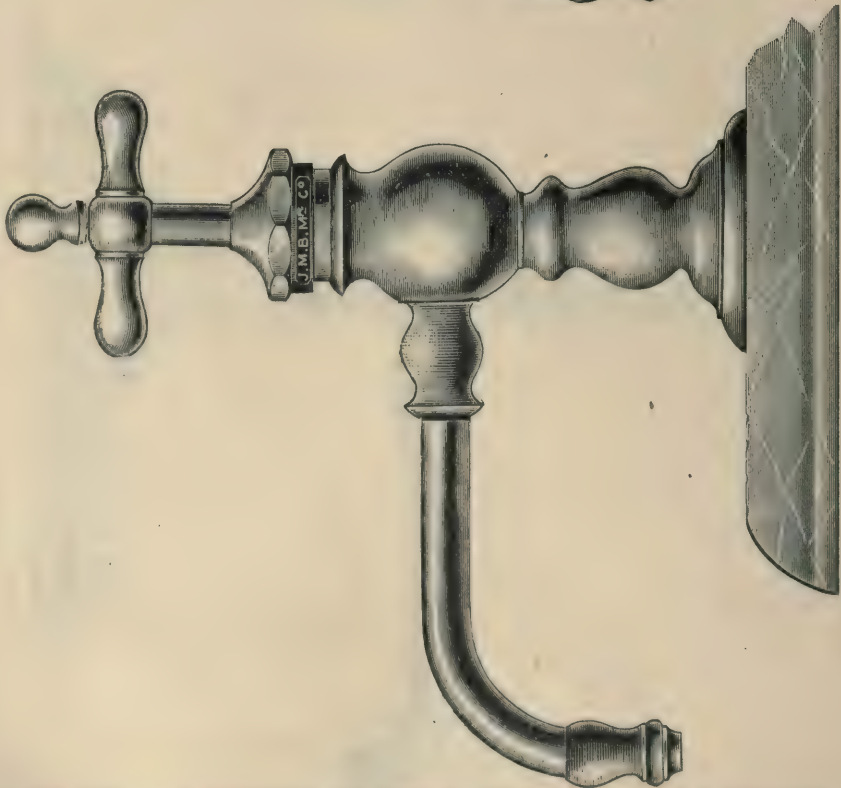
No. 11½.

X HANDLE.
Fig. 1181.



Finished..... Price per dozen 22.00
Nickel Plated..... “ “ 26.00

T HANDLE.
Fig. 1180.



Finished..... Price per dozen 20.00
Nickel Plated..... “ “ 24.00

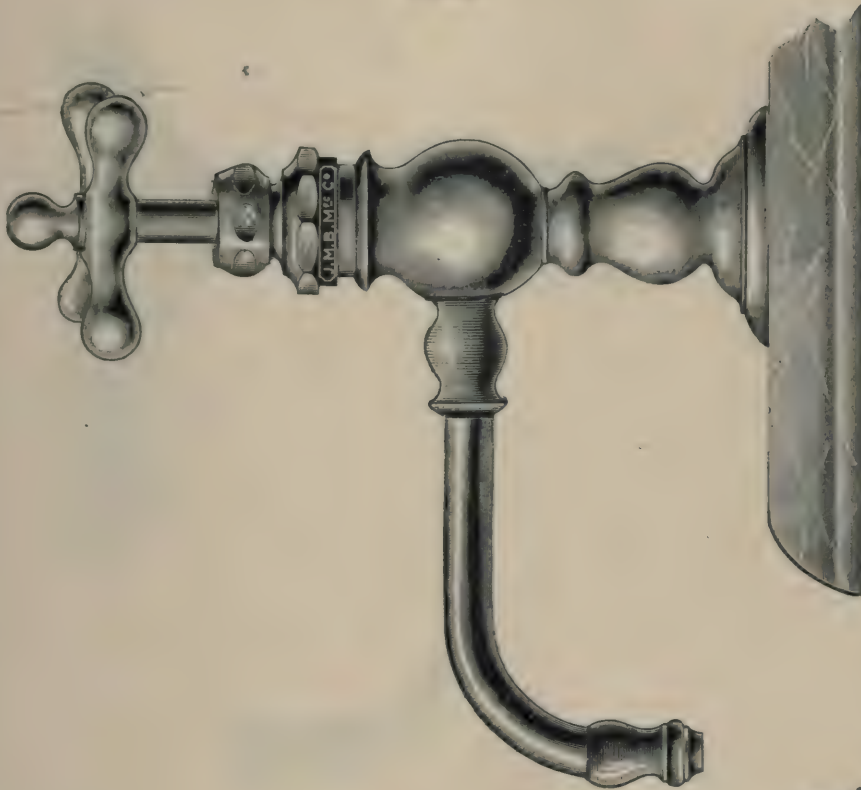
Compression Basin Cocks.

With Stuffing Box.

No. 1½.

X HANDLE.

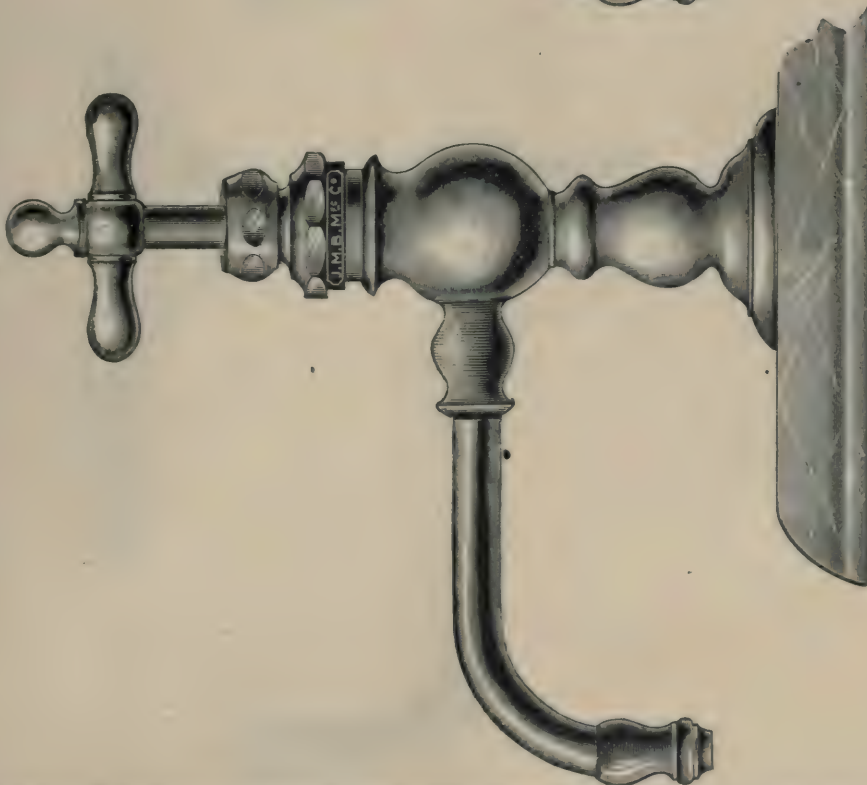
Fig. 1183.



Finished	Price per dozen	24.00
Nickel Plated . . .	"	28.00

T HANDLE.

Fig. 1182.



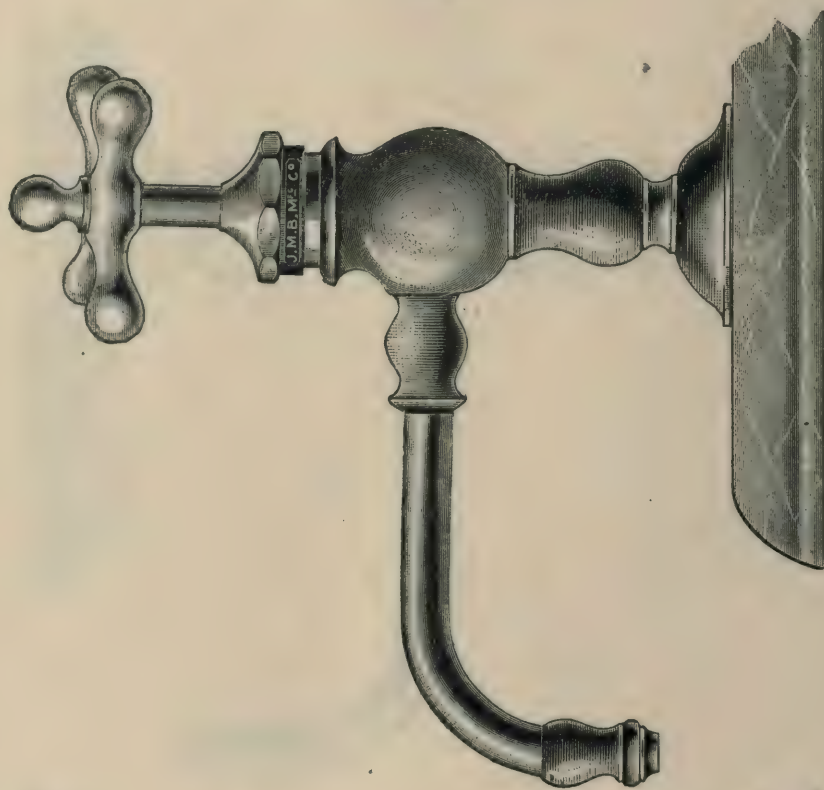
Finished	Price per dozen	22.00
Nickel Plated . . .	"	26.00

Compression Basin Cocks.

Without Stuffing Box.

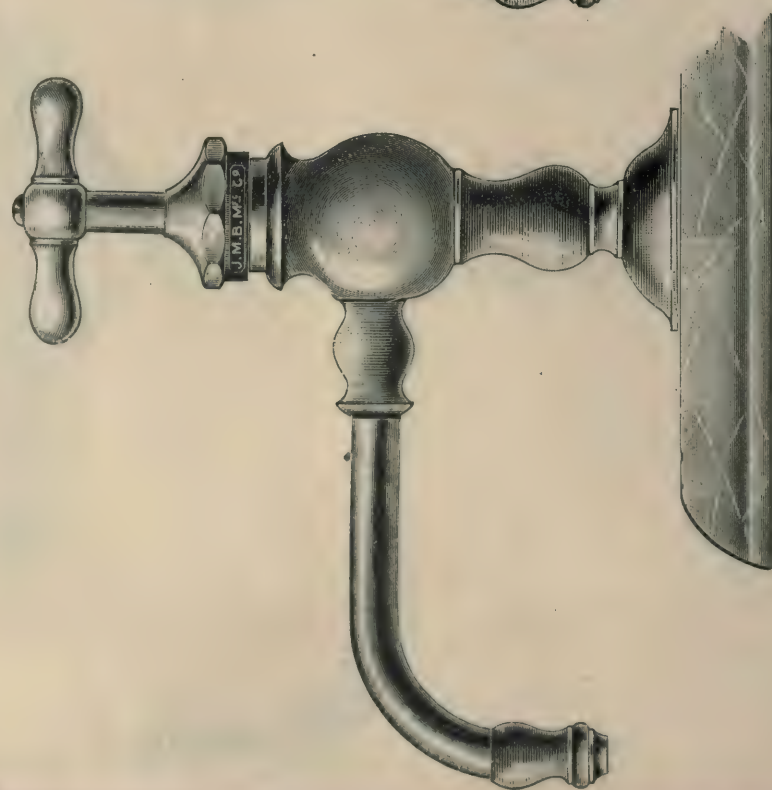
No. 2.

X HANDLE.
Fig. 1185.



Finished..... Price per dozen 24.00
Nickel Plated..... " " 28.00

T HANDLE.
Fig. 1184.



Finished..... Price per dozen 22.00
Nickel Plated..... " " 25.00

Compression Basin Cocks.

With Stuffing Box.

No. 2.

X HANDLE.

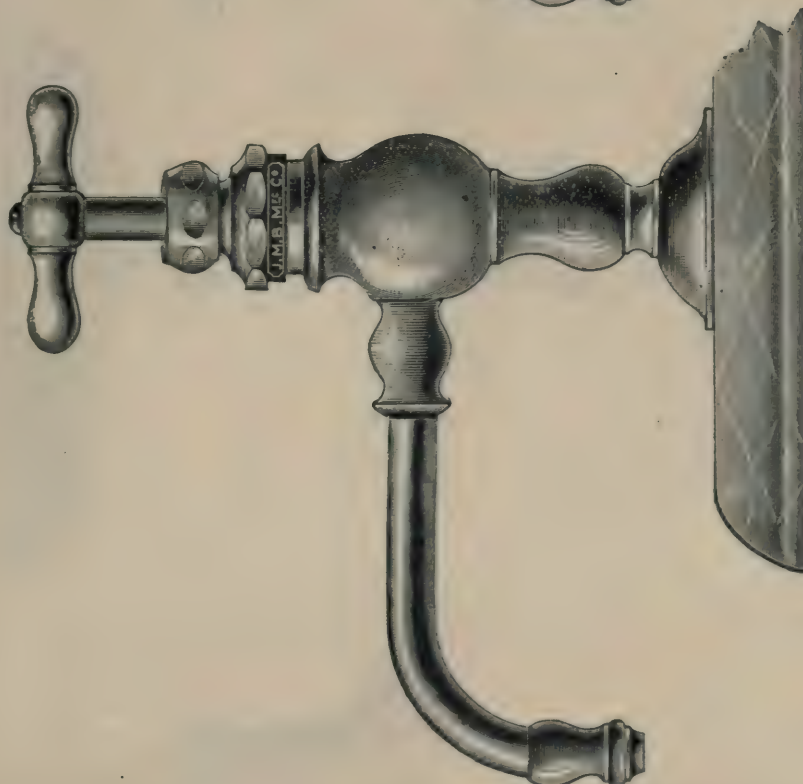
Fig. 1187.



Finished.....Price per dozen 26.00
Nickel Plated....." 31.00

T HANDLE.

Fig. 1186.



Finished.....Price per dozen 24.00
Nickel Plated....." 27.00

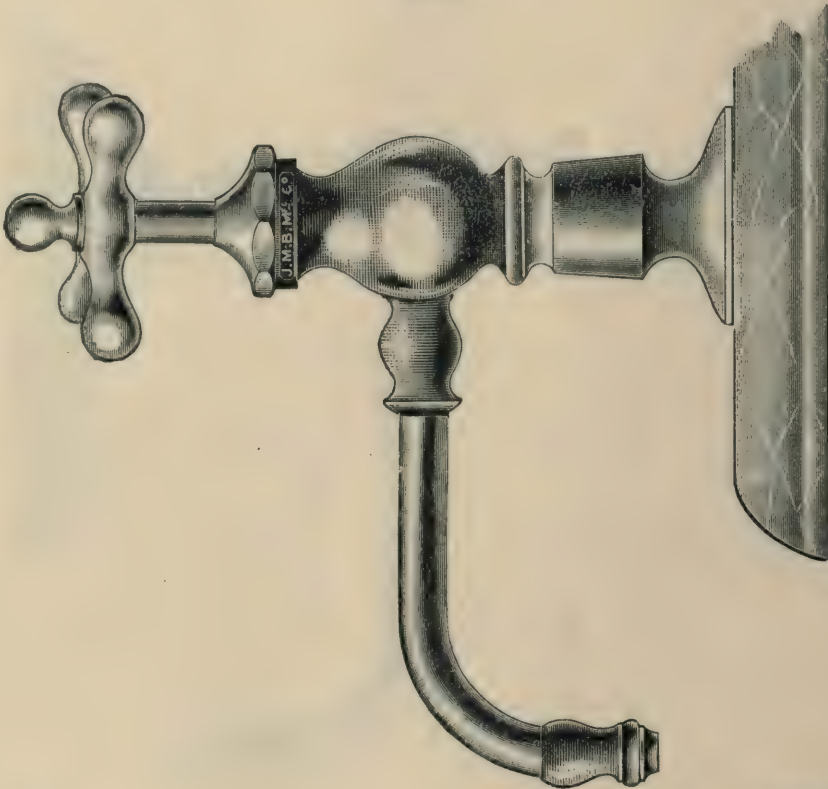
Compression Basin Cocks.

Without Stuffing Box.

No. 3.

X HANDLE.

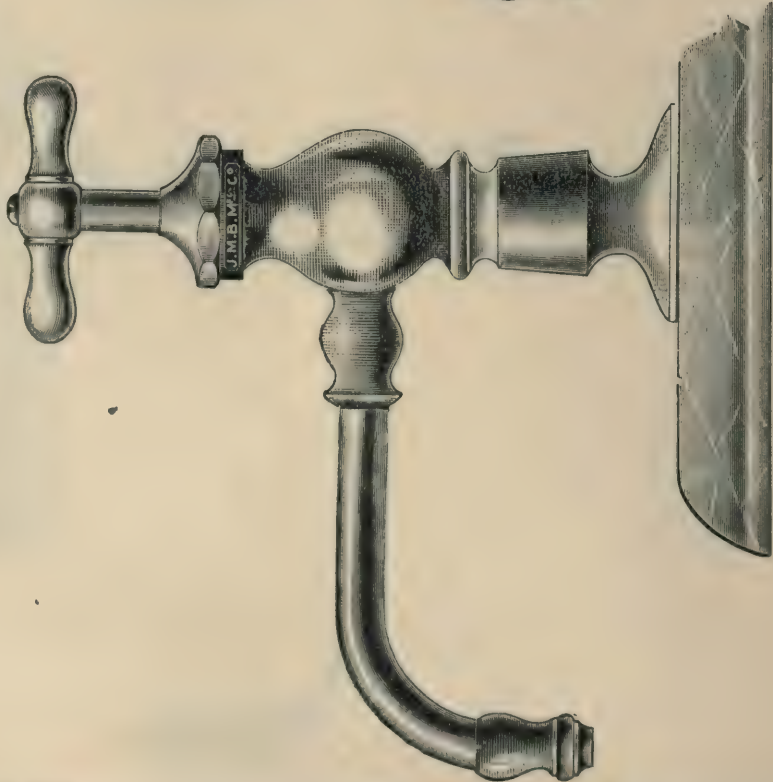
Fig. 1189.



Finished.....Price per dozen 28.00
Nickel Plated.....“ “ 32.00

T HANDLE.

Fig. 1188.



Finished.....Price per dozen 24.00
Nickel Plated.....“ “ 28.00

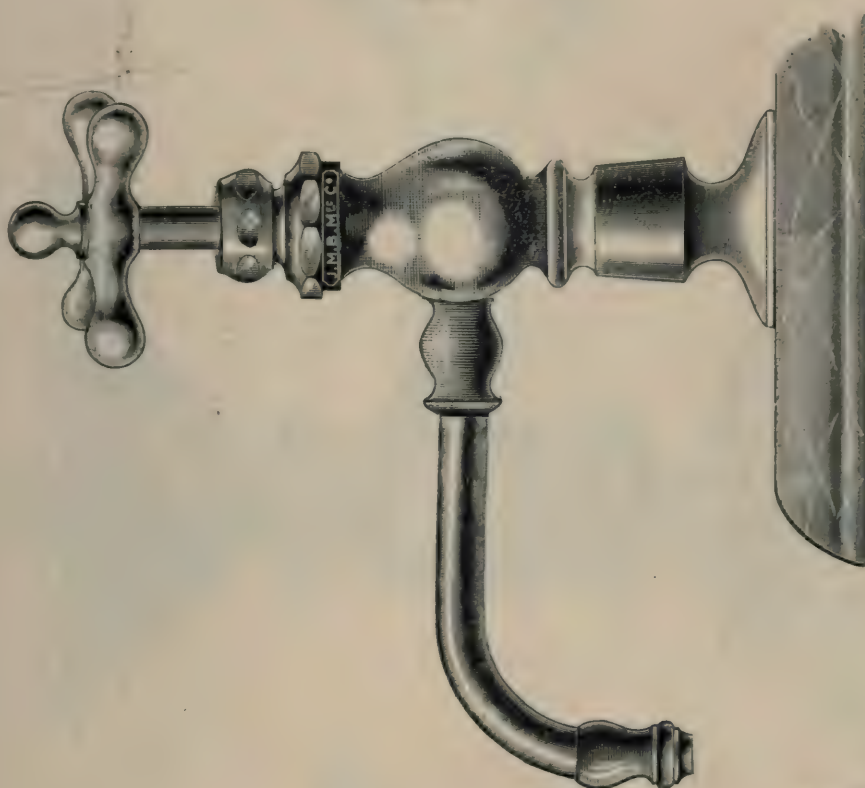
Compression Basin Cocks.

With Stuffing Box.

No. 3.

X HANDLE.

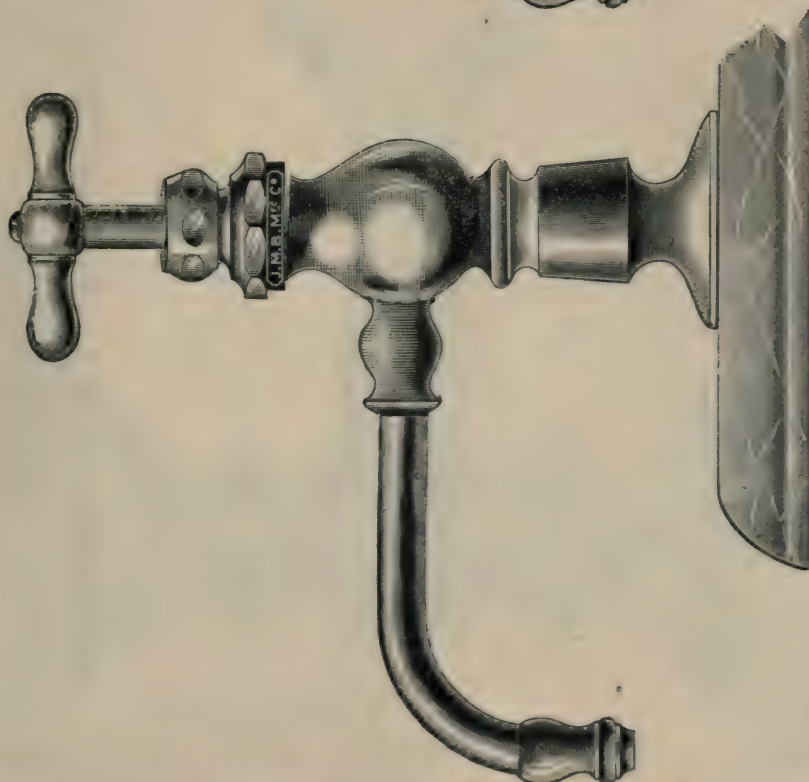
Fig. 1191.



Finished.....	Price per dozen	30.00
Nickel Plated.....	"	34.00

T HANDLE.

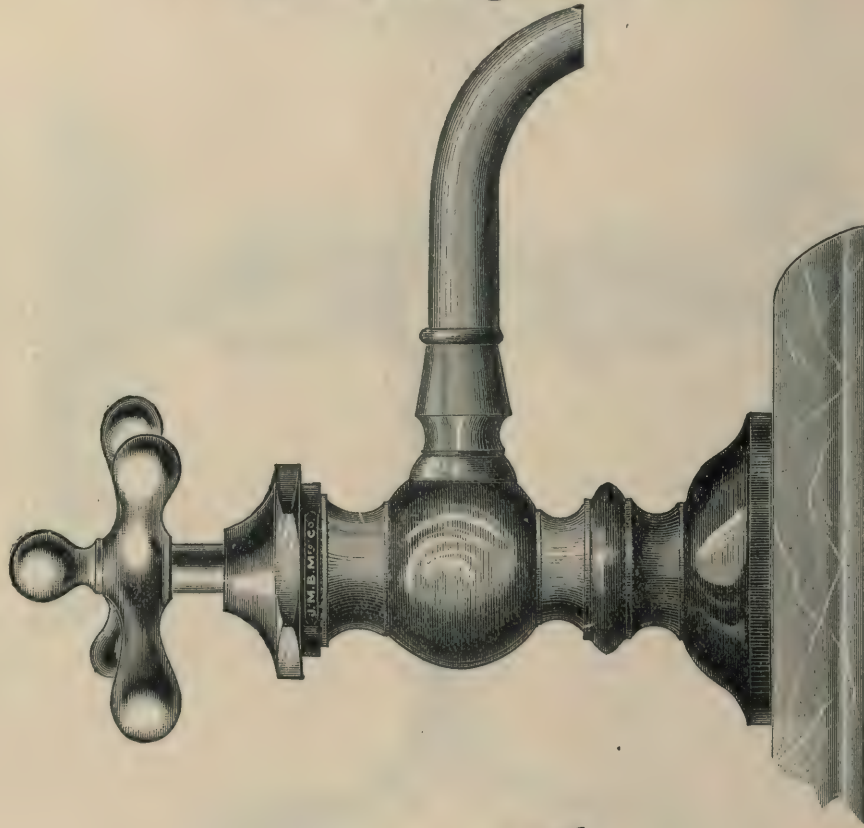
Fig. 1190.



Finished.....	Price per dozen	26.00
Nickel Plated.....	"	30.00

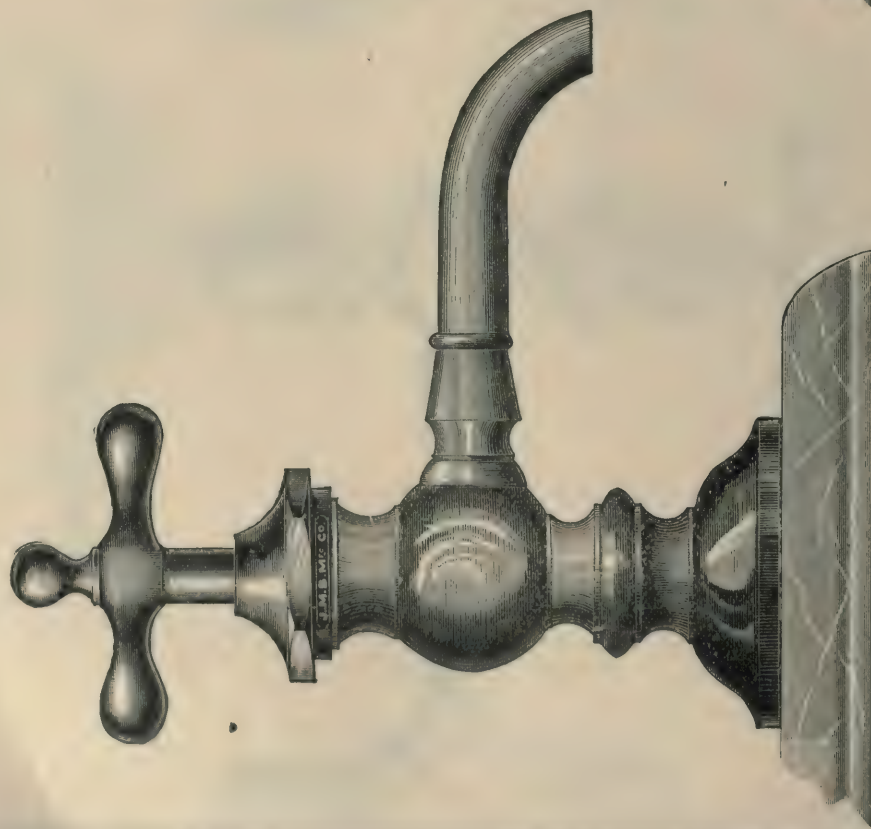
Compression Basin Cocks.
Without Stuffing Box.—No. 4.

X HANDLE.
Fig. 1193.



Finished price per doz. 36.00
Nickel Plated “ 40.00

T HANDLE.
Fig. 1192.

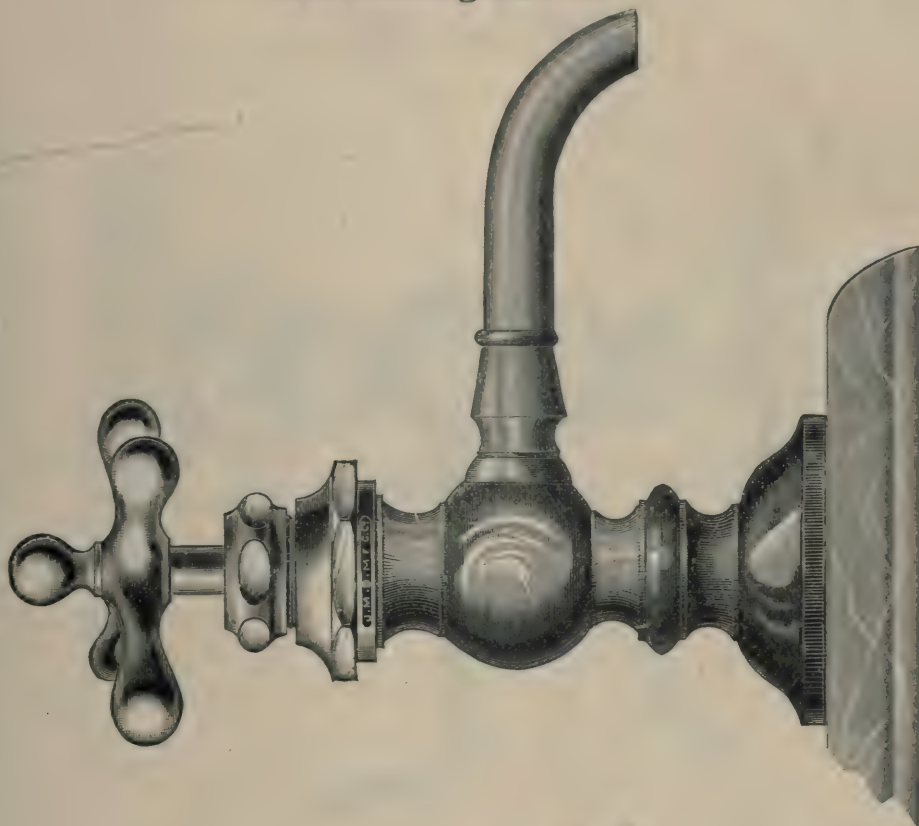


Finished price per doz. 34.00
Nickel Plated “ 38.00

Compression Basin Cocks.

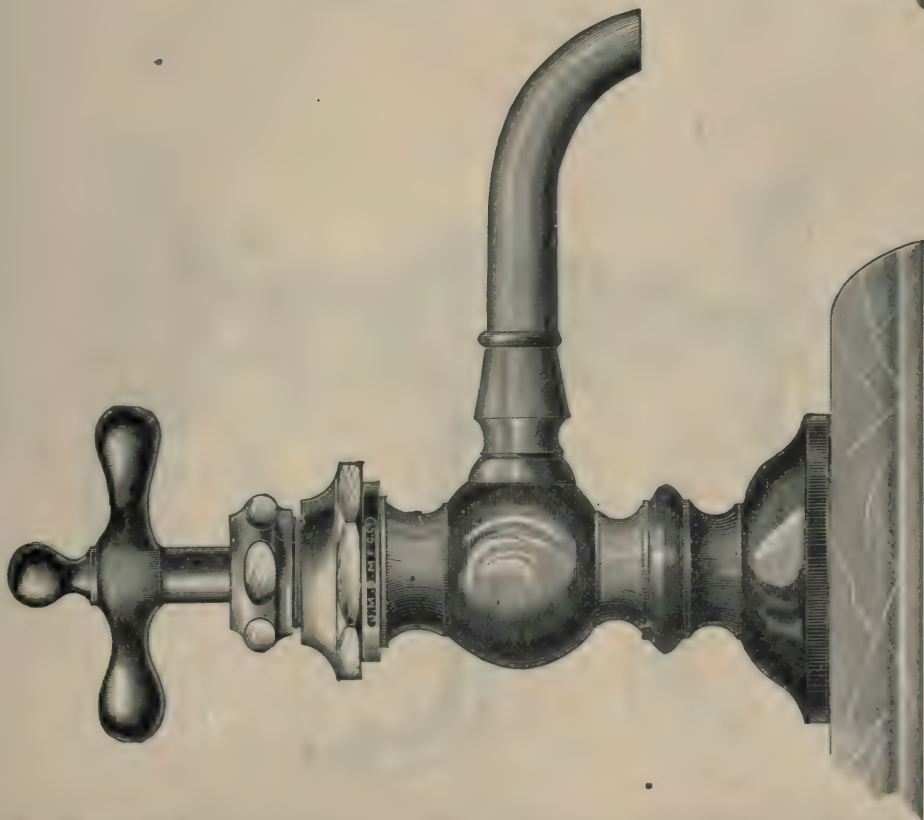
With Stuffing Box.—No. 4.

X HANDLE.
Fig. 1195.



Finished.....	Price per dozen	39.00
Nickel Plated.....	"	43.00

T HANDLE.
Fig. 1194.



Finished.....	Price per dozen	37.00
Nickel Plated.....	"	41.00

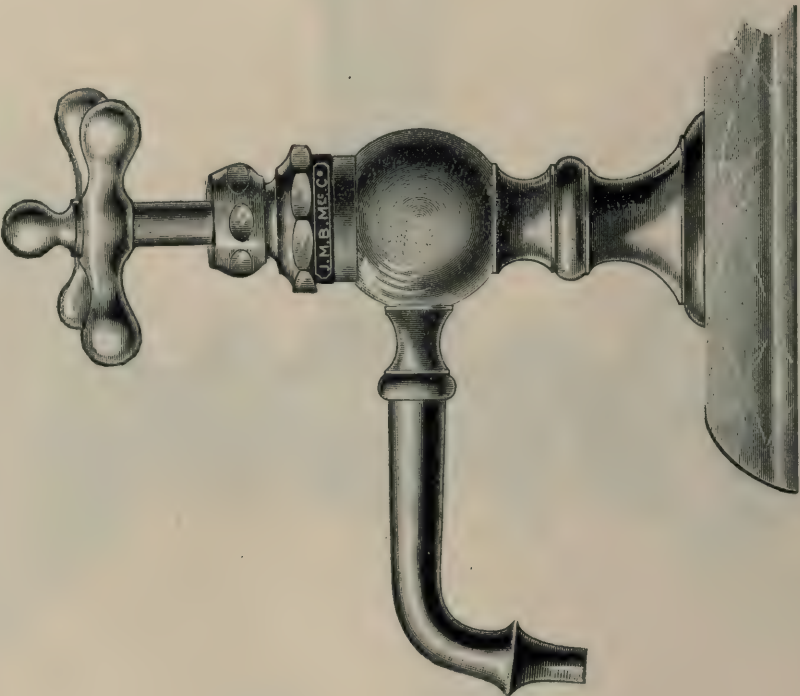
Compression Basin Cocks.

With Stuffing Box.

No. 5.

X HANDLE.

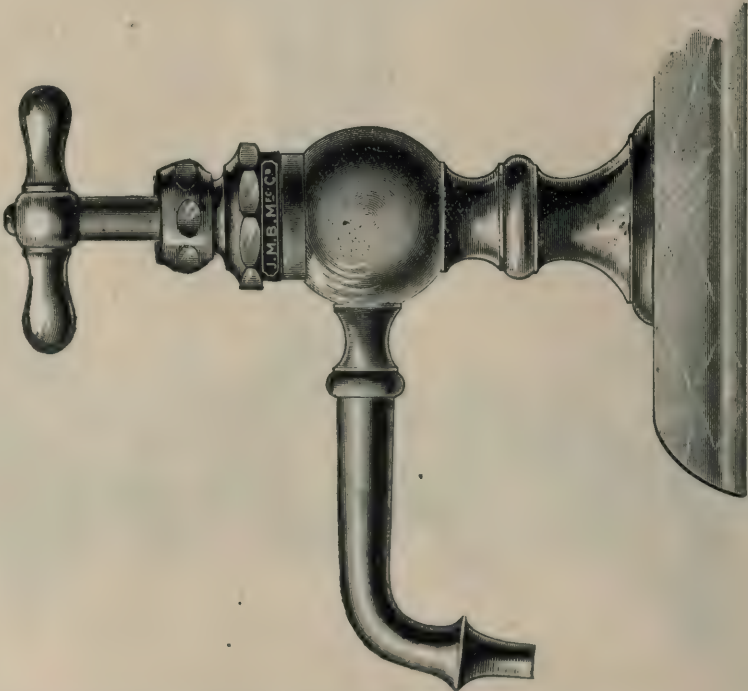
Fig. 1197.



Finished.....Price per dozen 20.00
Nickel Plated “ 24.00

T HANDLE.

Fig. 1196.



Finished.....Price per dozen 18.00
Nickel Plated..... “ 22.00

Compression Basin Cocks.

With Low Down Outlet.

No. 6.

X HANDLE.

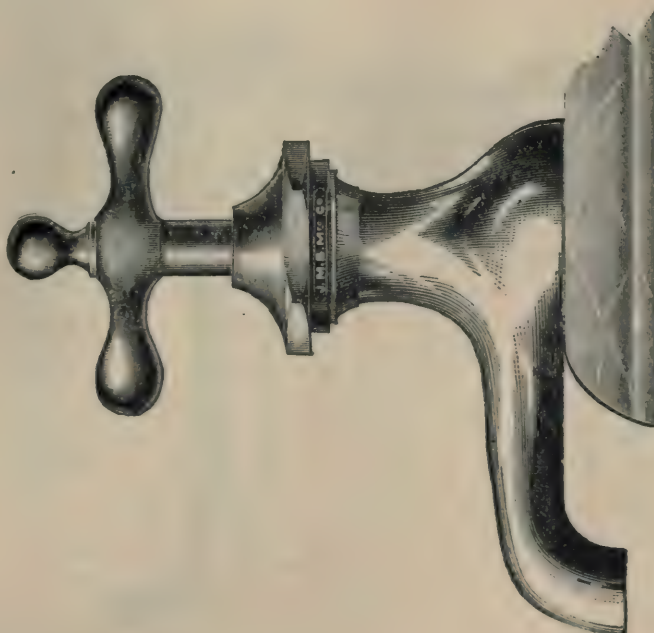
Fig. 1199.



Finished.....Price per dozen 18.00
 Nickel Plated....." 22.00

T HANDLE.

Fig. 1198.

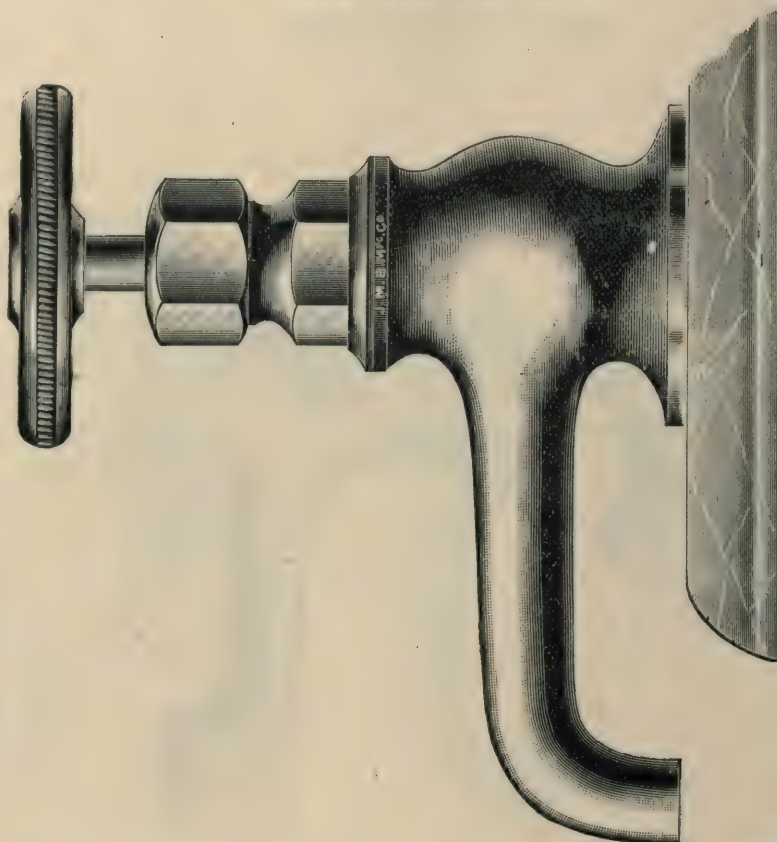


Finished.....Price per dozen 16.00
 Nickel Plated....." 19.00

Compression Basin Cocks.

Half Low Down.
WITH BRASS HANDLES.

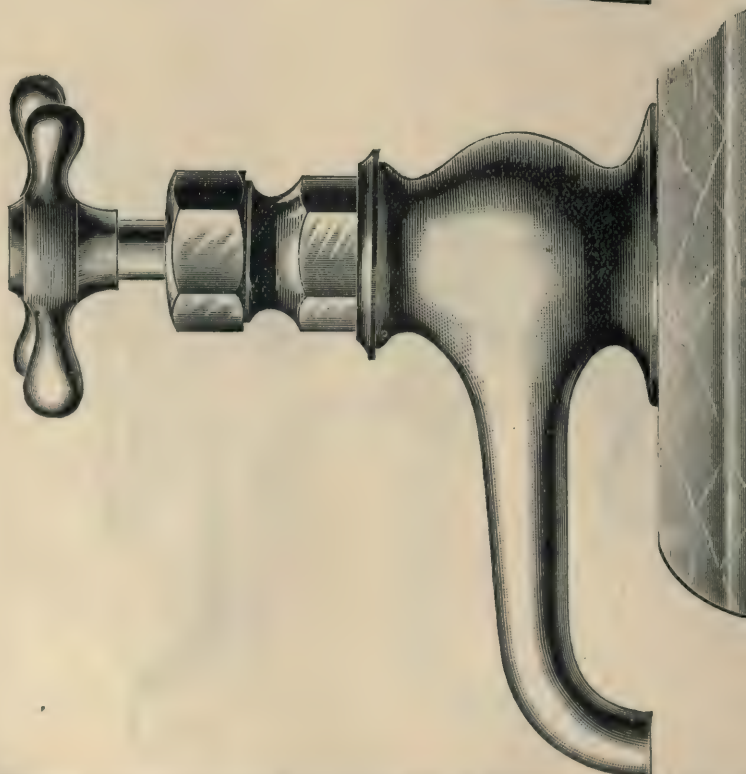
No. 7.—Fig. 1201.



Finished.....Price per dozen 32.00

Nickel Plated.....“ “ 36.00

No. 6½.—Fig. 1200.



Finished.....Price per dozen 27.00

Nickel Plated.....“ “ 31.00

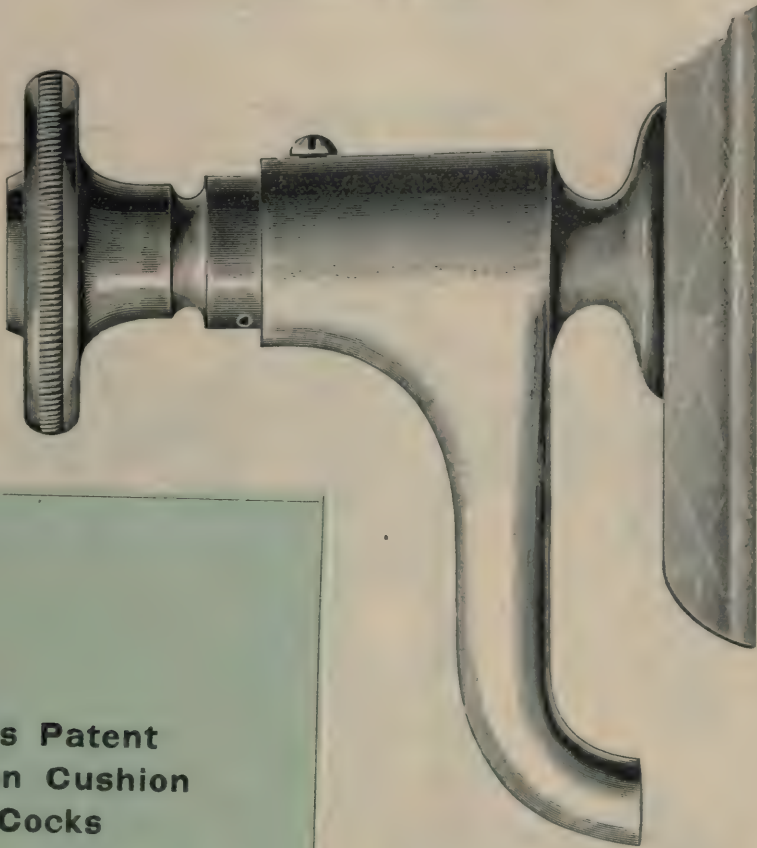
Compression Basin Cocks.

Brass Wheels.

LORD KELVIN PATERN.

HALF LOW DOWN.—Fig. 1203.

No. 9.



Finished.....Price per dozen 36.00

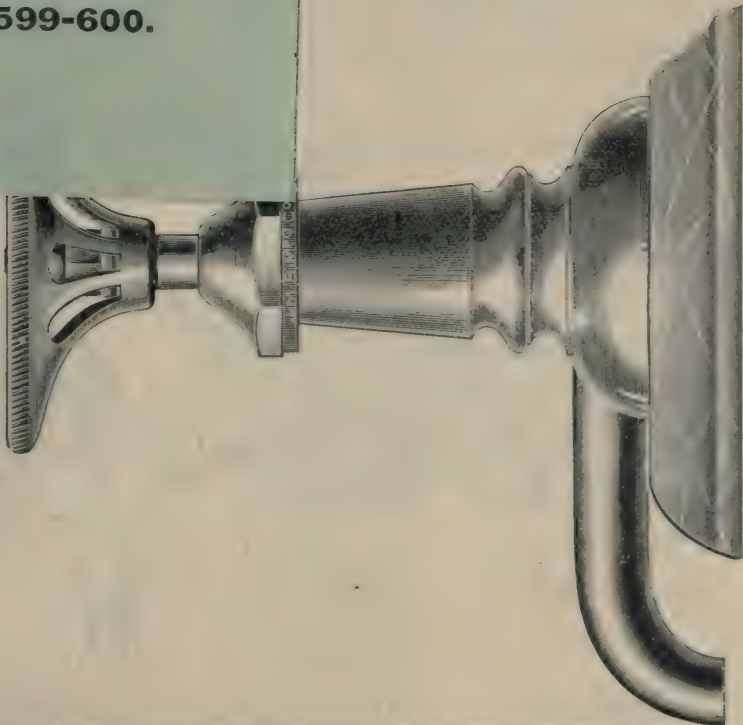
Nickel Plated....." 40.00

Morrison's Patent
Compression Cushion
Basin Cocks

See Pages 599-600.

Low DOWN.—Fig

No. 8.



Finished.....Price per dozen 32.00

Nickel Plated....." 36.00

Compression Double Basin Cock.

With Jewel Holder and Cross Handle.

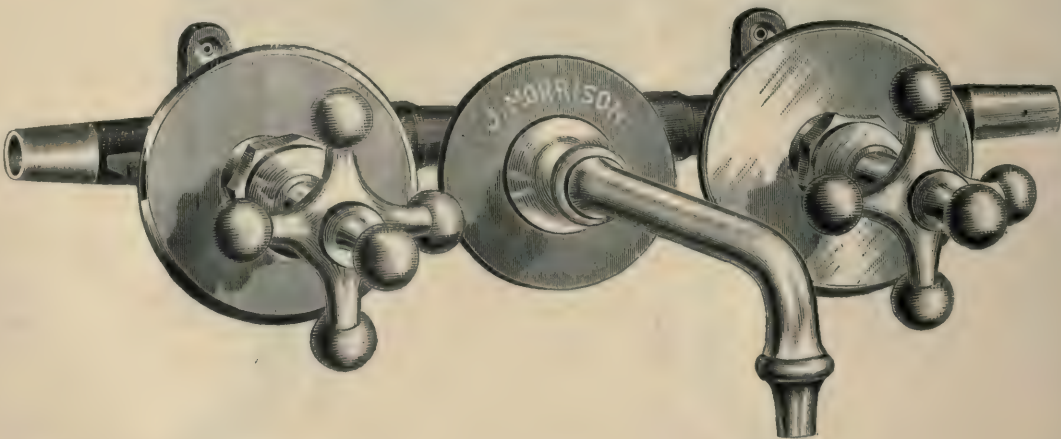
No. 10.—Fig. 1204.



Price each. Polished Brass.....\$9.00 Nickel Plated.....\$10.00

Compression Double Bracket Basin Cock.

No. 11.—Fig. 1205.



Price each. Polished Brass.....\$5.00 Nickel Plated.....\$5.50

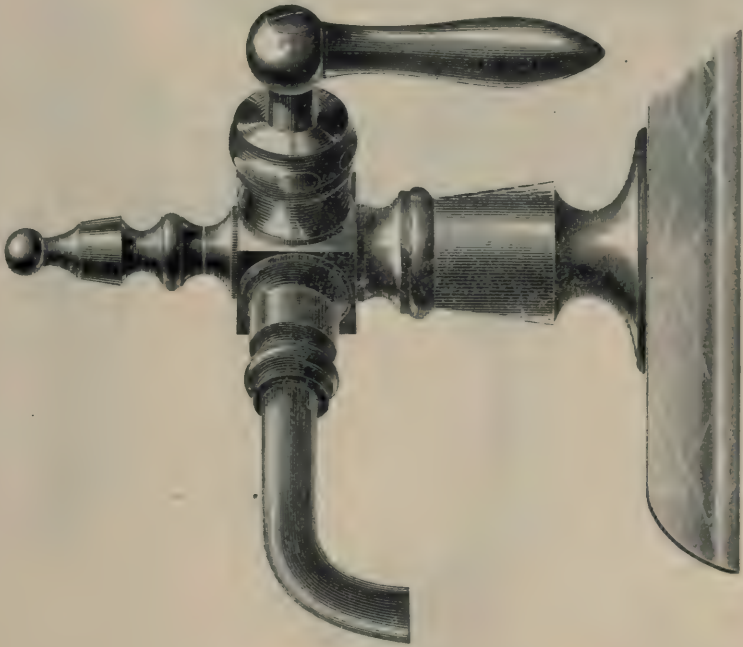
Improved Fuller's Basin Cocks.

With Brass Handles.

Nos. 0 and 1.

No. 1.

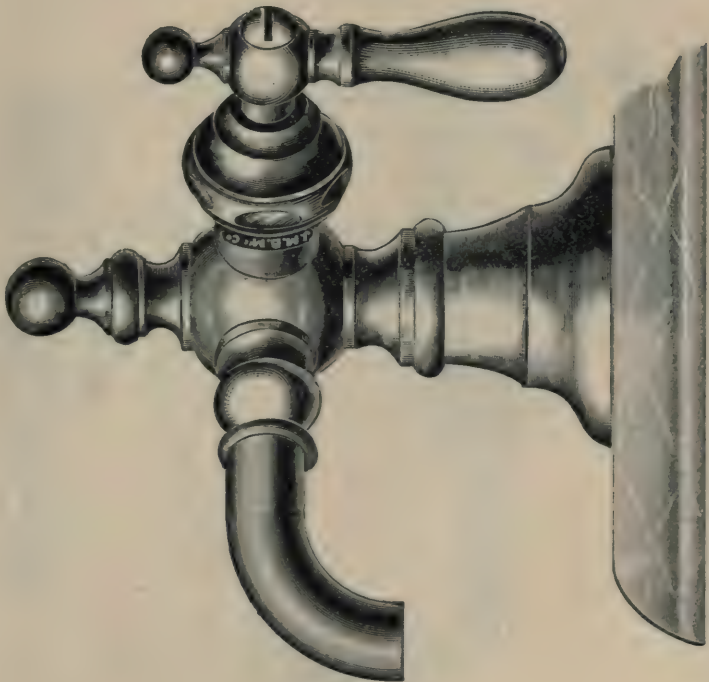
Fig. 1207.



Finished.....Price per dozen 33.00
Nickel Plated....." 40.00

No. 0.

Fig. 1206.



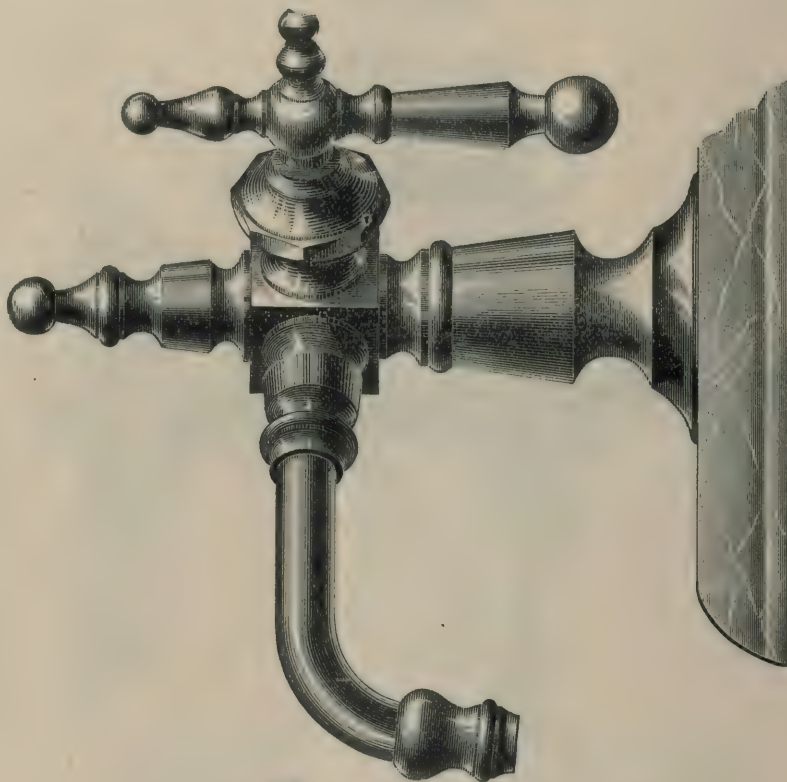
Finished.....Price per dozen 33.00
Nickel Plated....." 40.00

Improved Fuller's Basin Cocks.

Nos. 2 and 3.

No. 3.

Fig. 1209.

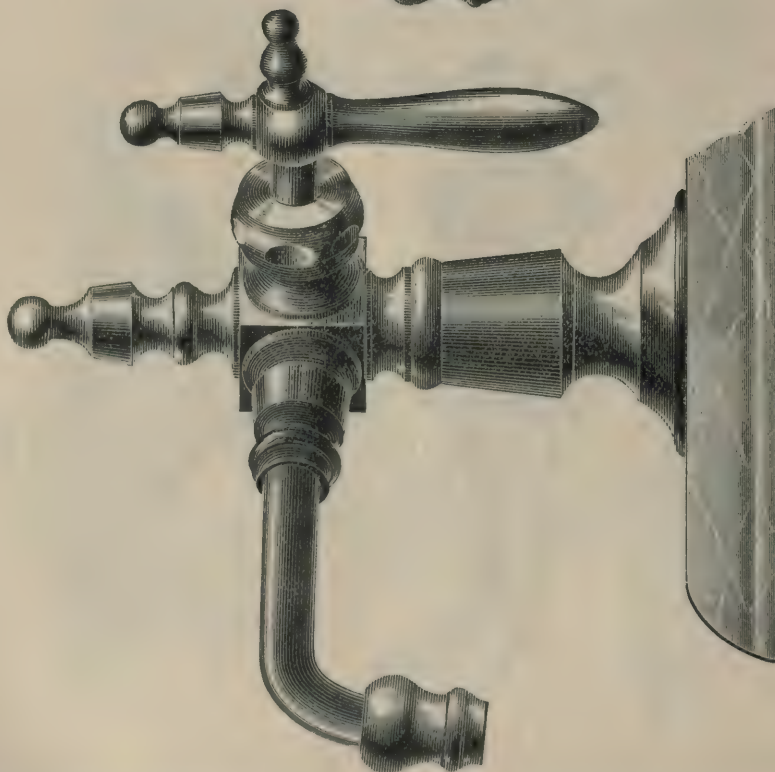


Finished.....Price per dozen 46.00

Nickel Plated.....“ 54.00

No. 2.

Fig. 1208.



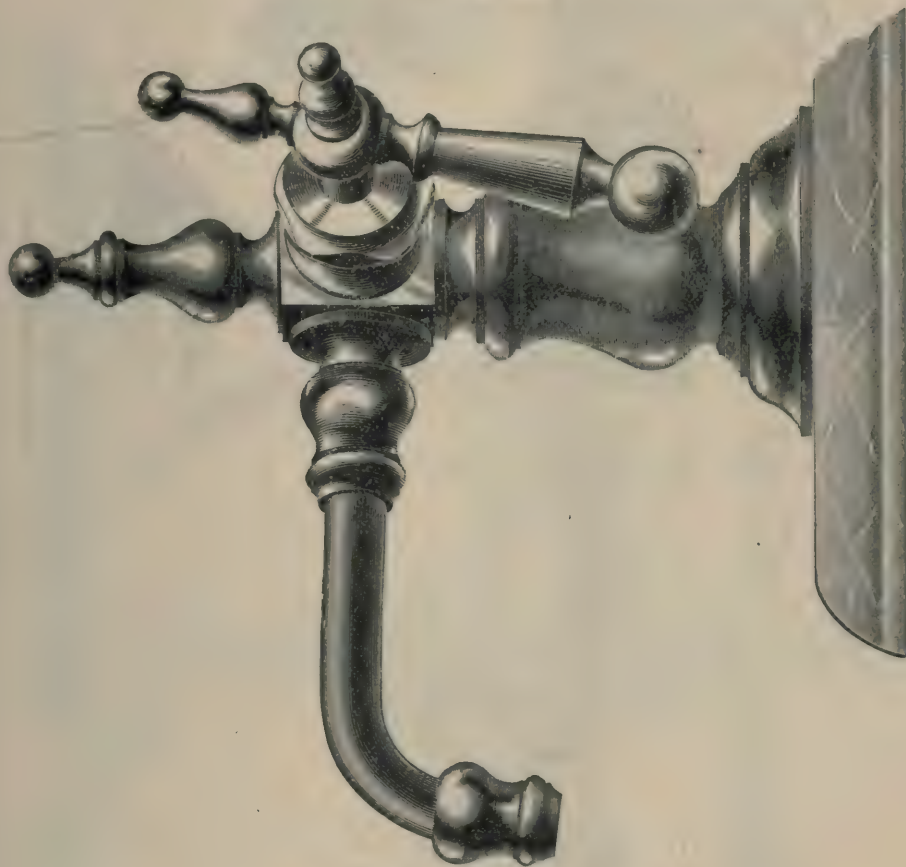
Finished.....Price per dozen 36.00

Nickel Plated.....“ 44.00

Improved Fuller's Basin Cocks.

Nos. 3½ and 4.

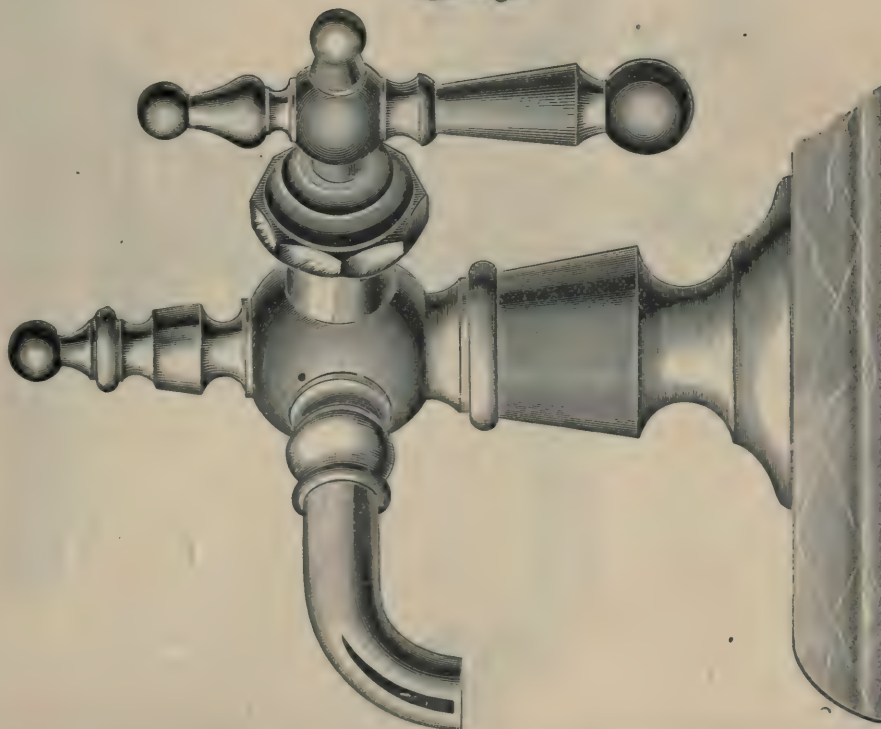
No. 4.
Fig. 1211.



Finished.....Price per dozen 56.00
Nickel Plated.....“ 64.00

With Ebony or Ivory Handles add \$12.00 per dozen.

No. 3½.
Fig. 1210.



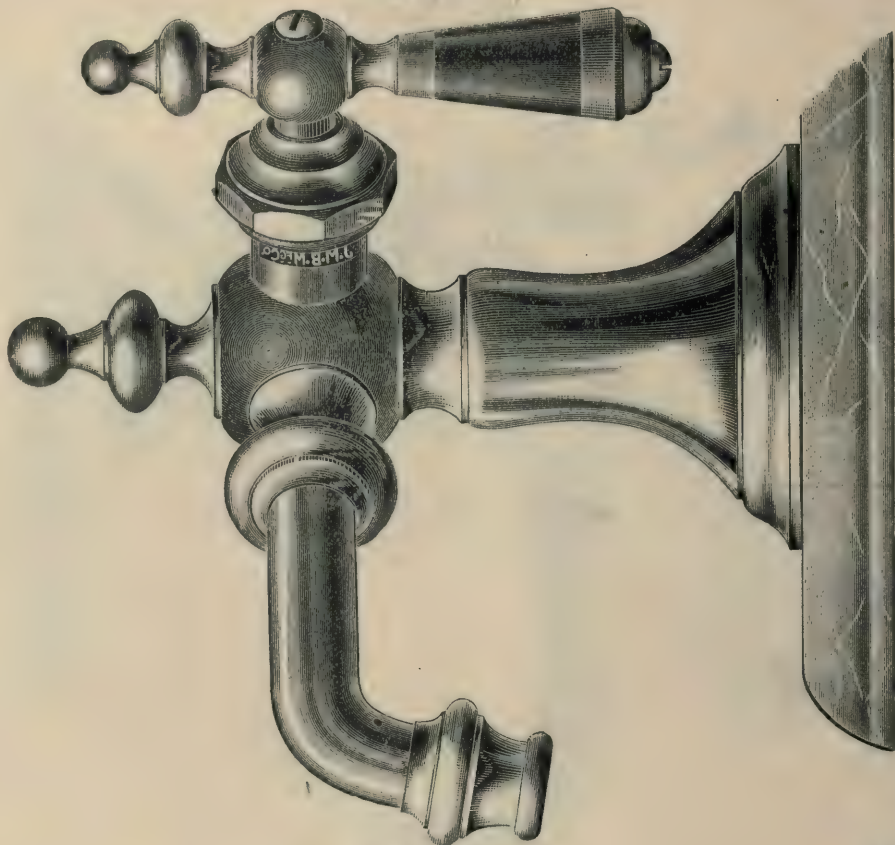
Finished.....Price per dozen 46.00
Nickel Plated.....“ 54.00

With Ebony or Ivory Handles add \$12.00 per dozen.

Improved Fuller's Basin Cocks.

Nos. 4½ and 5.

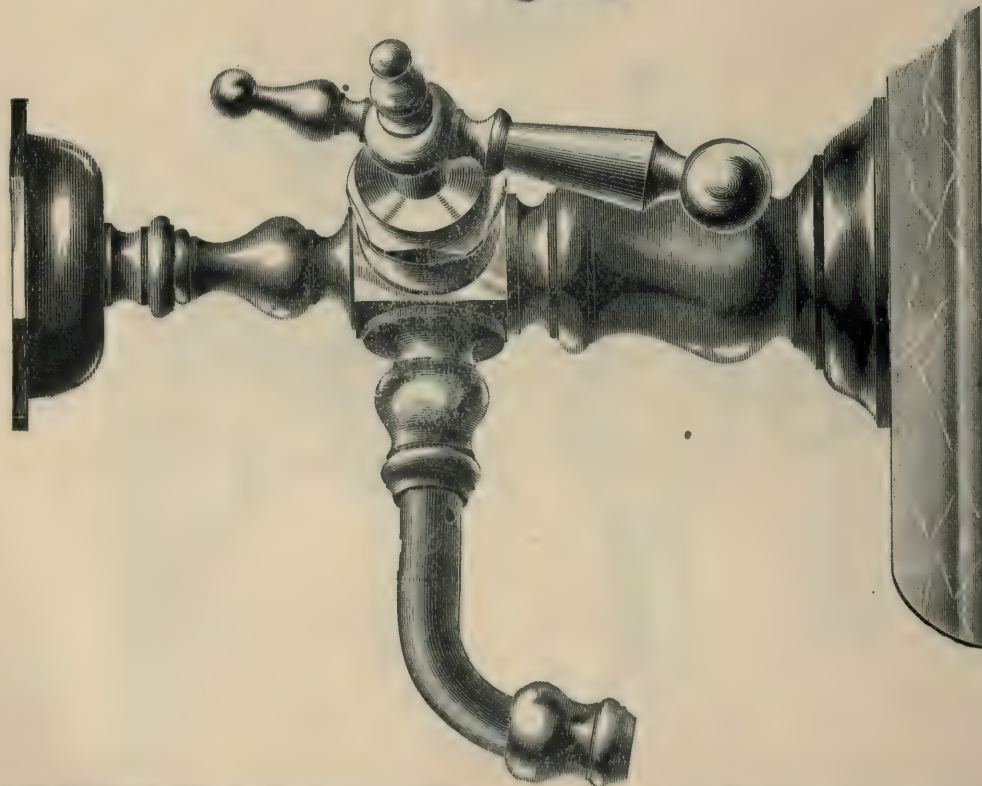
No. 5.—Fig. 1213.



Finished..... Price per dozen 50.00
 Nickel Plated..... " 58.00

With Ebony or Ivory Handles add \$12.00 per dozen.

No. 4½.—Fig. 1212.



Finished..... Price per dozen 66.00
 " 76.00
 Nickel Plated.....

With Ebony or Ivory Handles add \$12.00 per dozen.

Improved Fuller's Basin Cock.

With Jewel Holder. Brass Handles.

No. 6.—Fig. 1214.

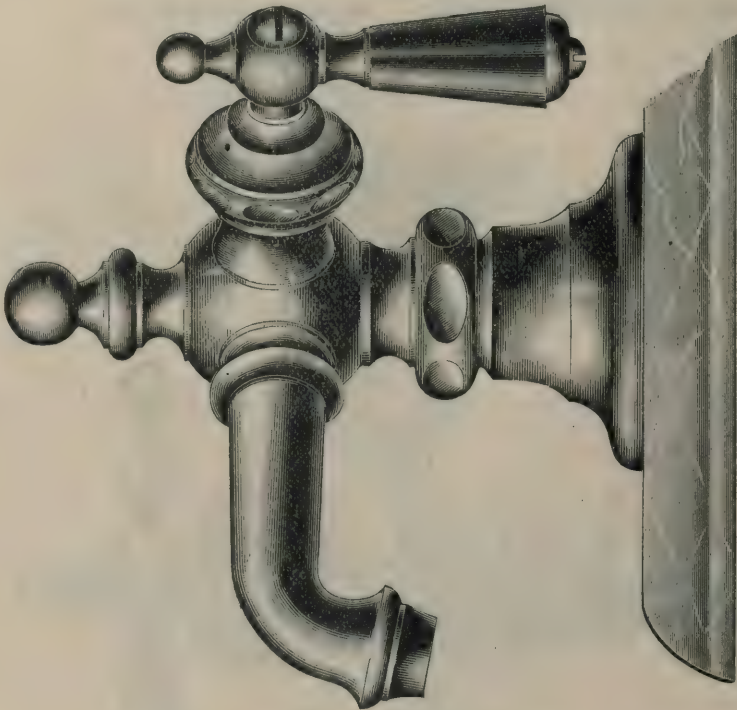


Finished	Price per dozen	\$ 90.00
Nickel Plated	“ “	100.00
If with Ebony or Ivory Handles		Add “ 12.00

Improved Fuller's Basin Cocks.

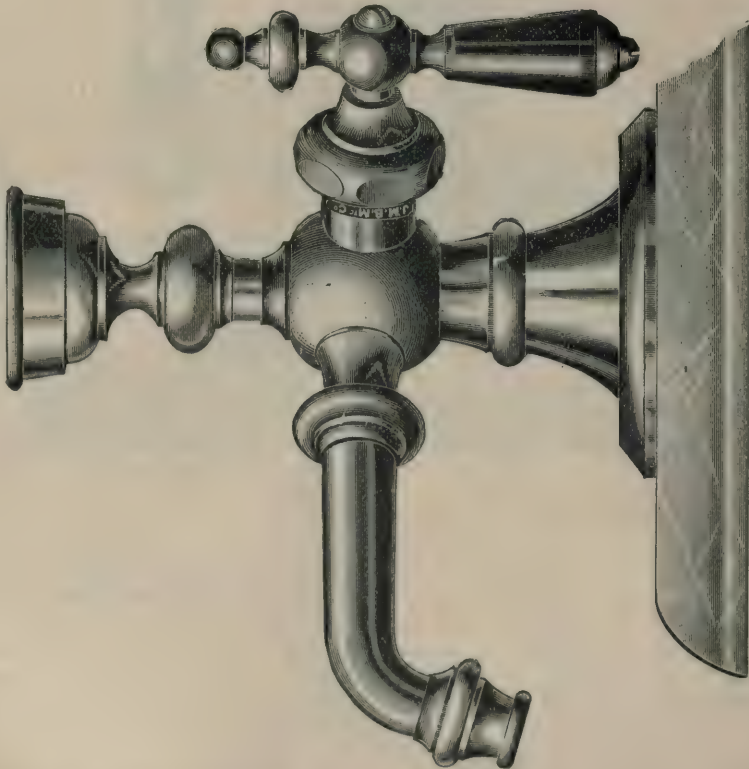
Nos. 7 and 7½.

No. 7½.—Fig. 1216.
WITH UNION JOINT.



Finished.....Price per dozen 54.00
Nickel Plated.....“ “ 60.00

No. 7.—Fig. 1215.
WITH JEWEL HOLDER.



Finished.....Price per dozen 72.00
Nickel Plated.....“ “ 80.00

With Ebony or Ivory Handles add, per dozen, \$12.00

Improved Fuller's Basin Cocks.

With Low Down Outlet.

No. 13. —Fig. 1217.



With Jewel Holder.

No. 14. —Fig. 1218.

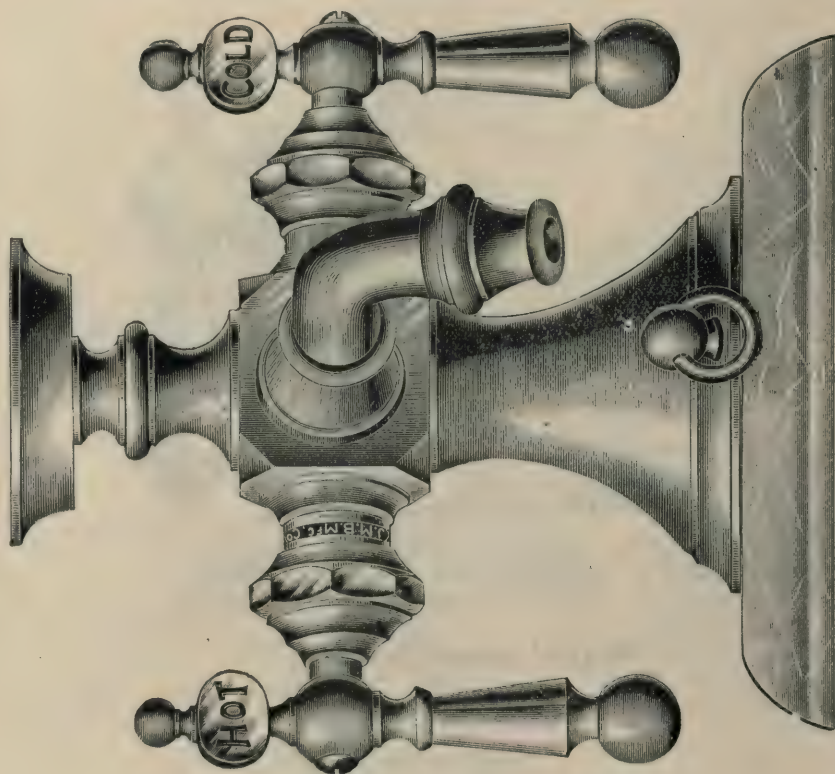


	Finished.	Nickel Plated
Fig. 1217. No. 13.....Price per dozen	54.00	60.00
" 1218. No. 14....." "	60.00	66.00

Improved Fuller's Basin Cocks.

With Jewel Holder. Brass Handles.

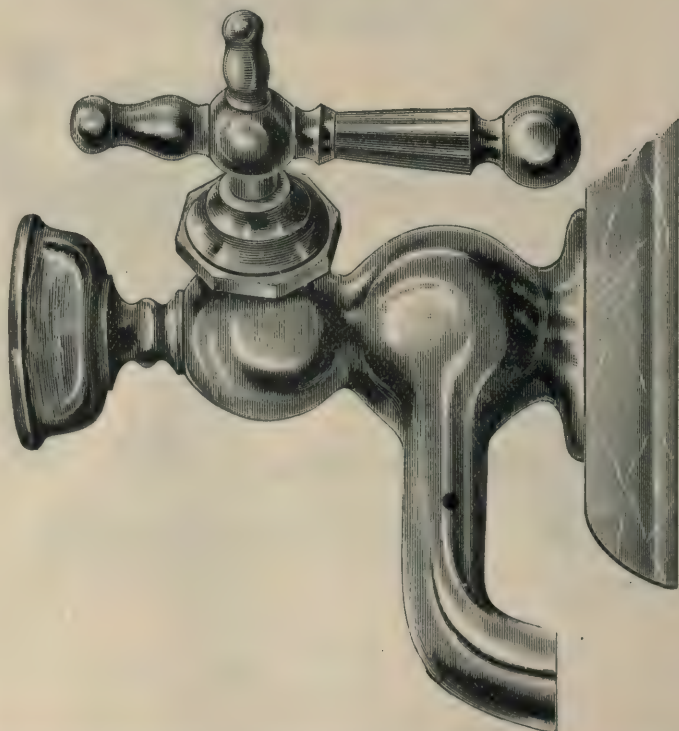
No. 8½.—Fig. 1220.



Finished.....Price each 10.00

Nickel Plated " 11.00

No. 15.—Fig. 1219.



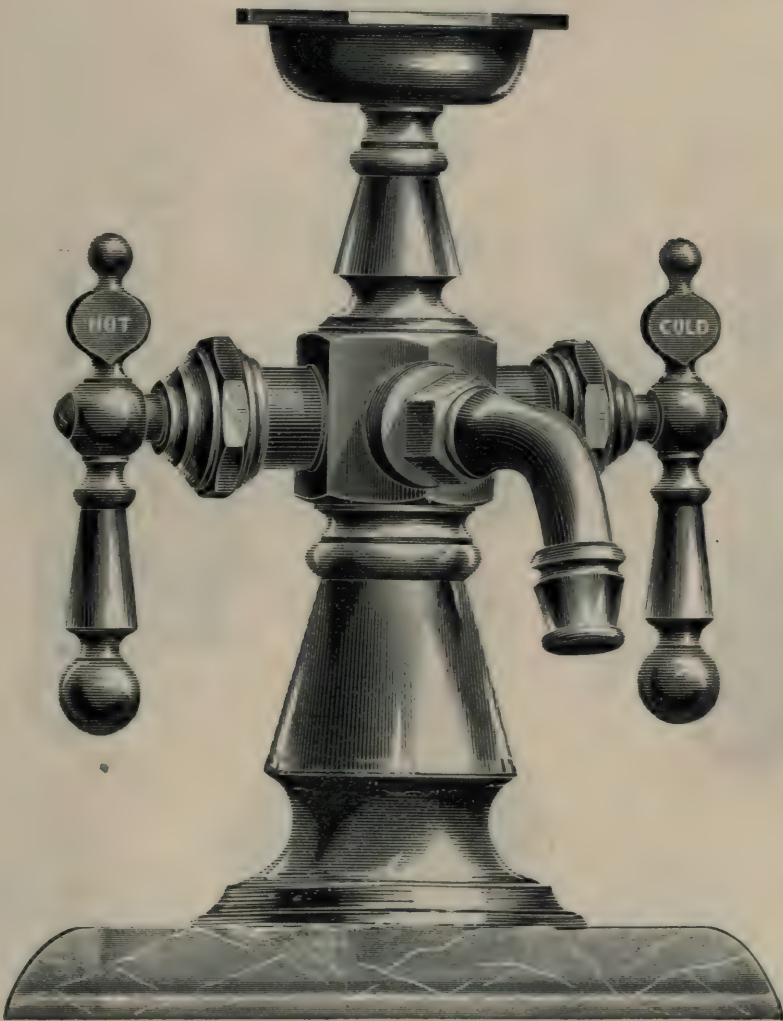
Finished.....Price each 5.00

Nickel Plated " 5.50

Improved Fuller's Double Basin Cock.

With Jewel Holder. Brass Handles.

No. 8.—Fig. 1221.

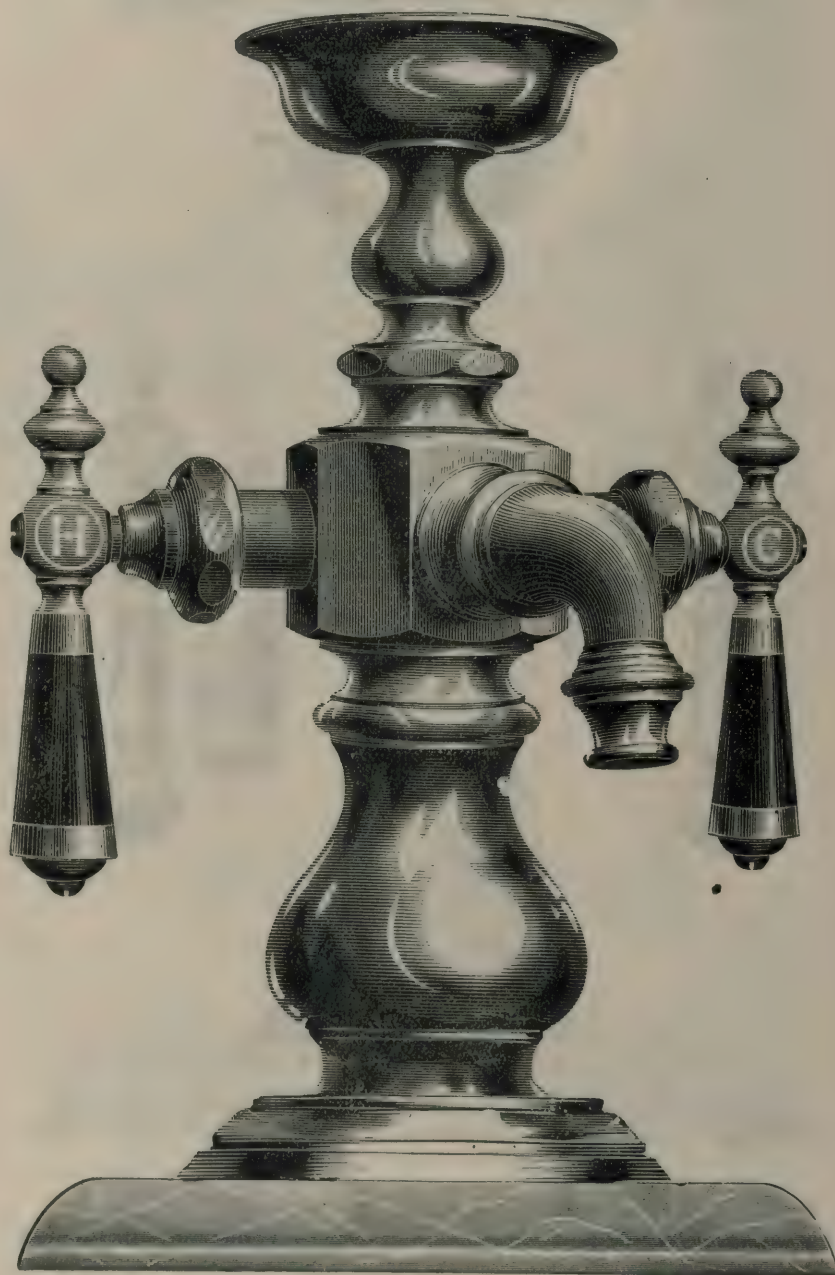


Finished.....	Price each	\$12.00
Nickel Plated	" "	13.00
If with Ebony or Ivory Handles.....	Add "	2.00

Improved Fuller's Double Basin Cock.

With Jewel Holder. Brass Handles.

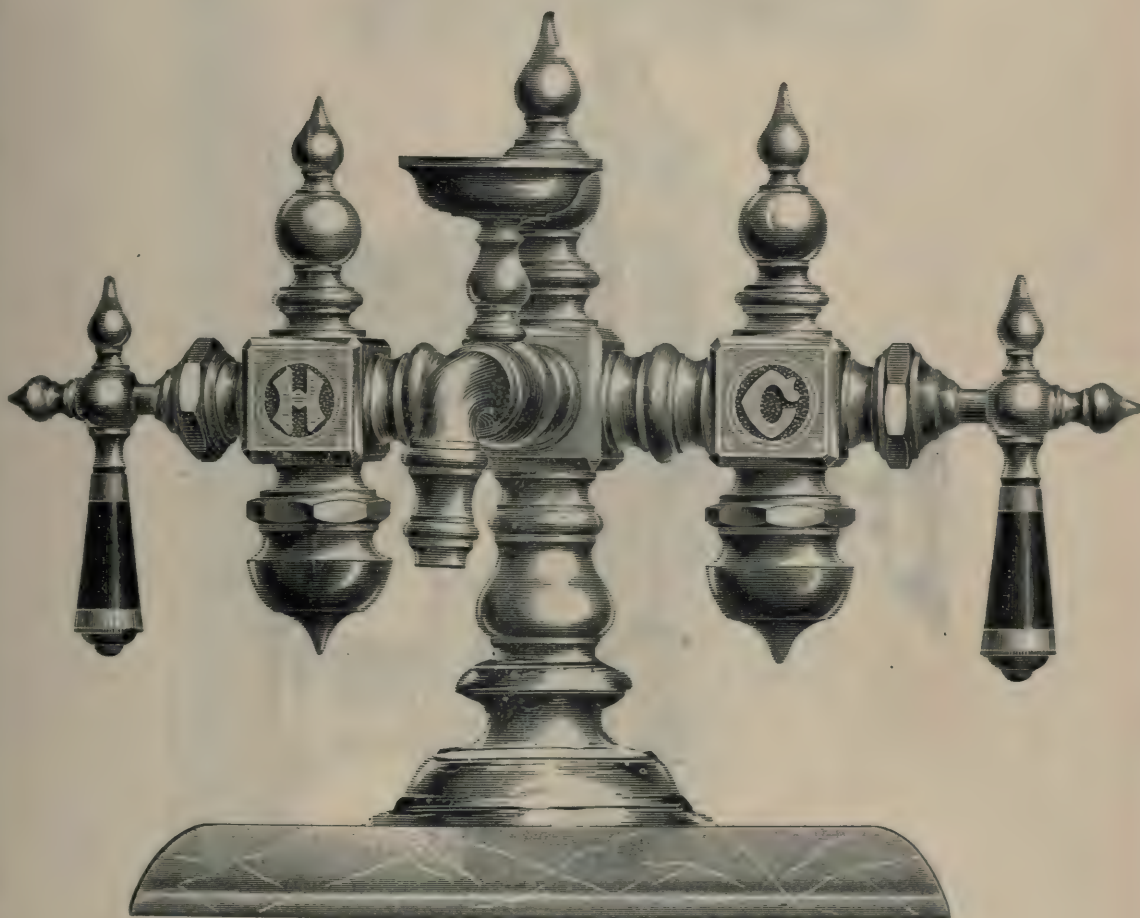
No. 9.—Fig. 1222.



Finished	Price each	\$16.00
Nickel Plated	" "	18.00
If with Ebony or Ivory Handles	Add "	2.00

Improved Fuller's Double Basin Cock.

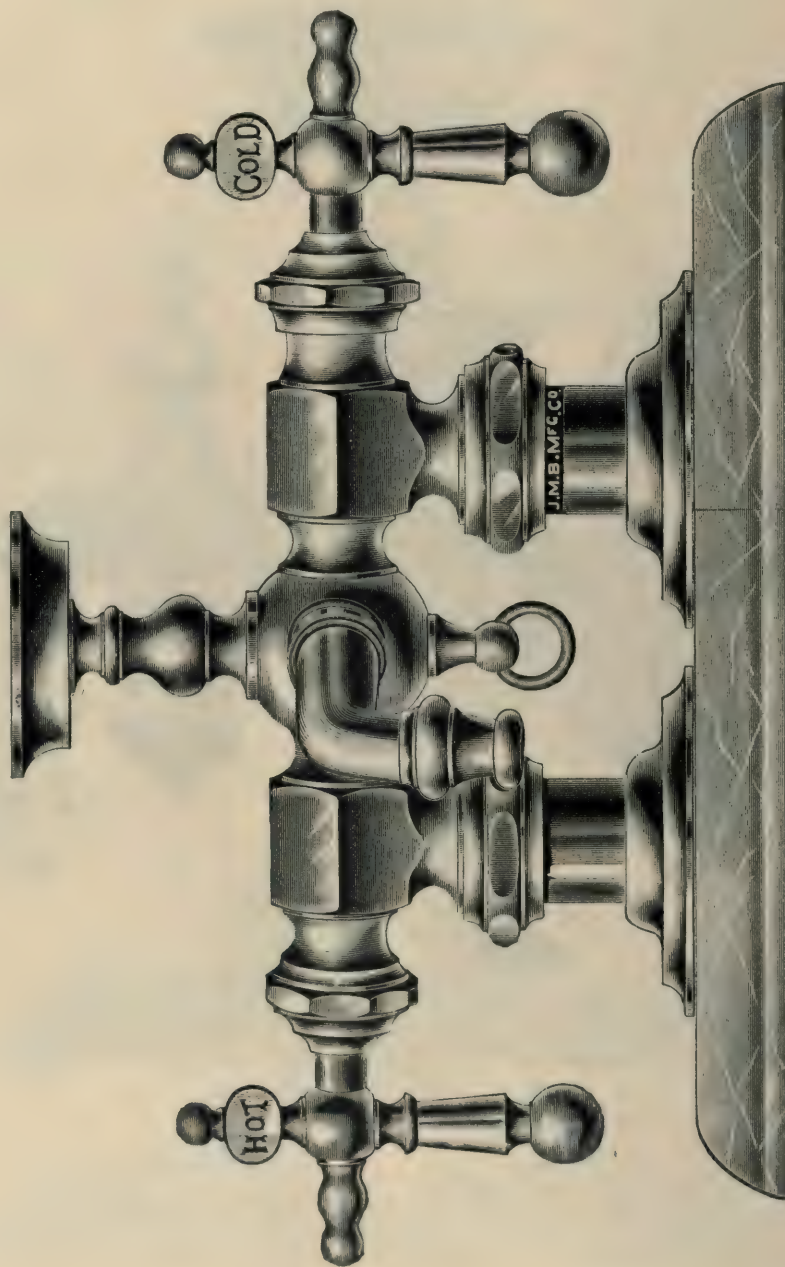
No. 10.—Fig. 1223.



Finished.....	Price each	\$24.00
Nickel Plated.....	“ “	28.00
With Ebony or Ivory Handles.....	Add “	2.00

Improved Fuller's Double Bracket Basin Cock

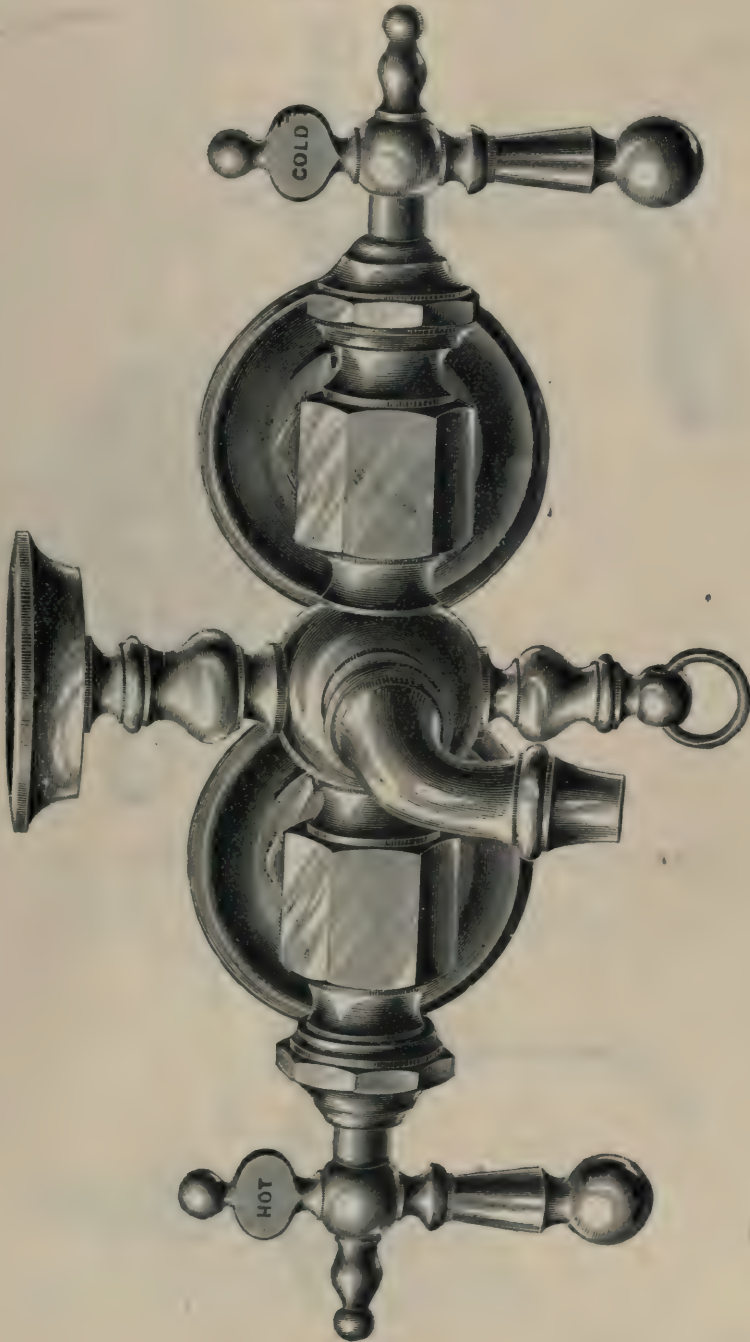
No. 11.—Fig. 1224.



Finished	Price each	\$10.00
Nickel Plated.....	“ “	12.00
With Ebony or Ivory Handles.....	Add “	2.00

Improved Fuller's Double Bracket Basin Cock With Brass Handles.

No. 12.—Fig. 1225.



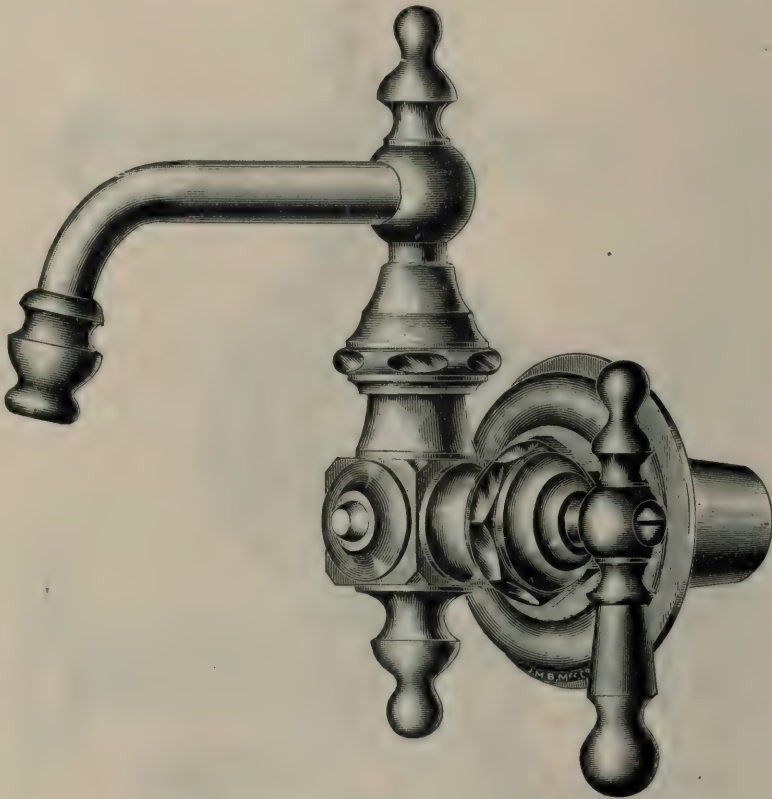
Finished.....	Price each	\$10.00
Nickel Plated	" "	12.00
With Ebony or Ivory Handles	Add "	2.00

Improved Fuller's Single Bracket Basin Cock.

With Swinging Tube.

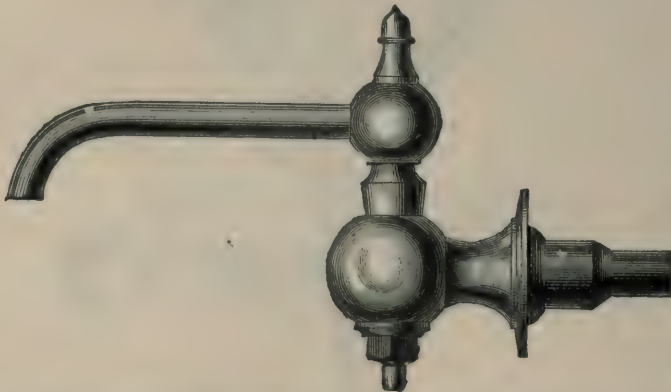
BRASS HANDLE.

Fig. 1225½.



Swinging Plug Bracket Basin Cock.

Fig. 1226.



	Finished.	N. Plated.
Fig. 1225½.....Price per dozen	40.00	48.00
" 1226....." "	18.00	22.00

Plug Swing Basin Cocks.

No. 1.—Fig. 1227.



No. 2.—Fig. 1228.



		Finished.	N. Plated.
Fig. 1227.	No. 1, Swing.....Price per dozen	21.00	25.00
"	1228. No. 2, "" " "	22.00	26.00

Plug Swinging Basin Cocks.

No. 3.—Fig. 1229.



No. 4.—Fig. 1230.



						Finished.	N. Plated.
Fig. 1229.	No. 3,	Swinging	Basin	Cock.....	Price per dozen	25.00	29.00
"	1230.	No. 4,	"	"	"	36.00	40.00

Self Closing Basin Cocks.

No. 1.—Fig. 1232.



Finished.....Price per dozen 30.00

Nickel Plated....." " 34.00

No. 0.—Fig. 1231.

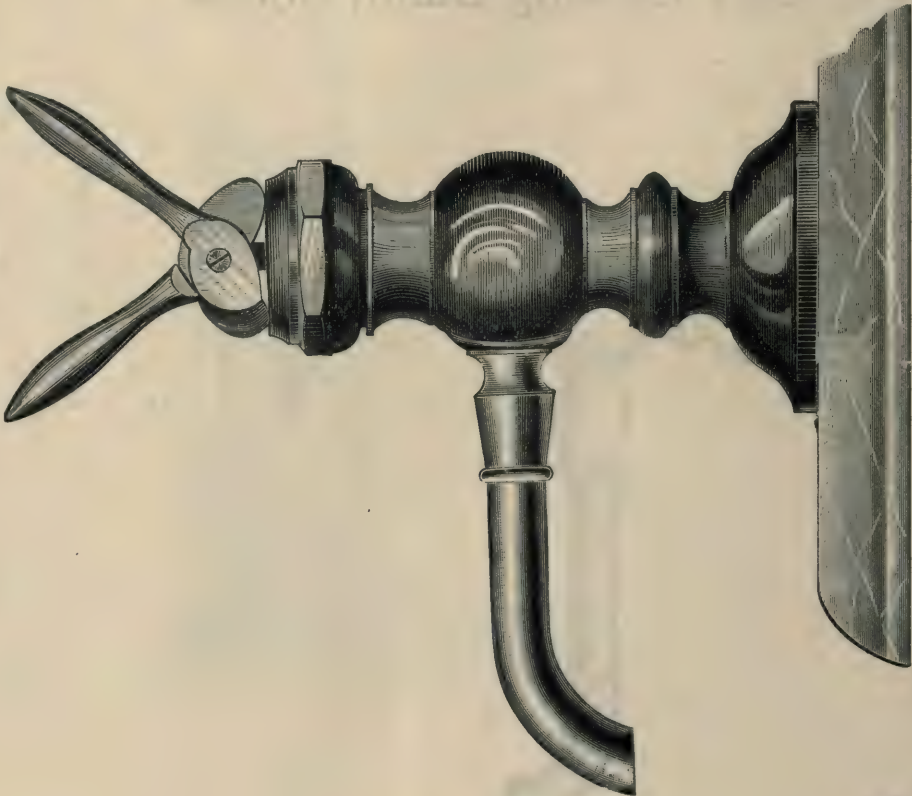


Finished.....Price per dozen 24.00

Nickel Plated....." " 27.00

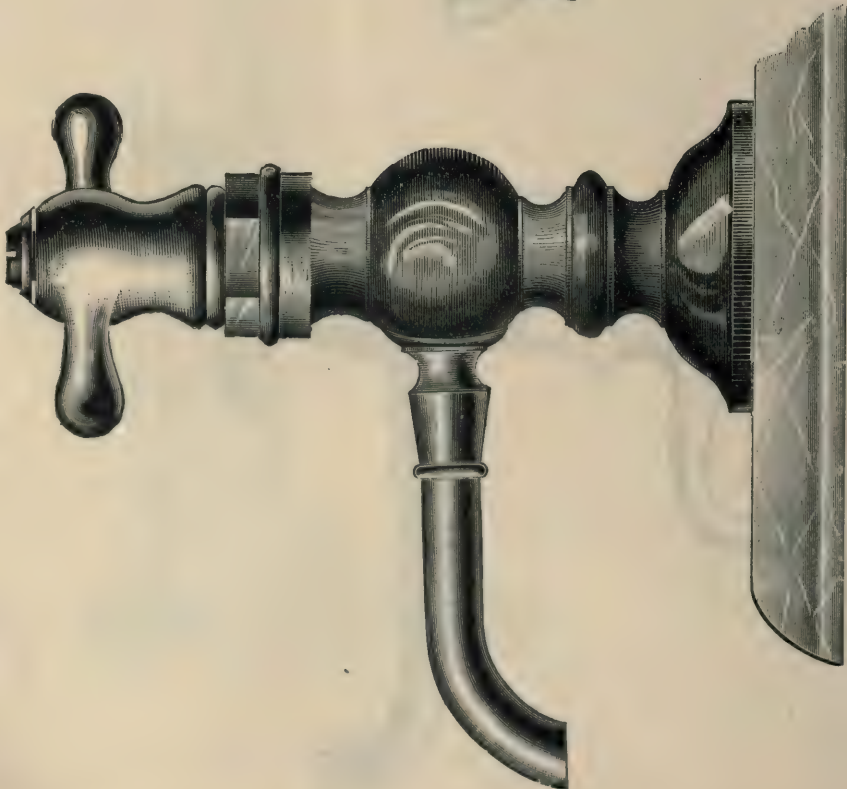
Self Closing Basin Cocks.

No. 3.—Fig. 1234.



Finished.....Price per dozen 45.00
Nickel Plated.....“ “ 48.00

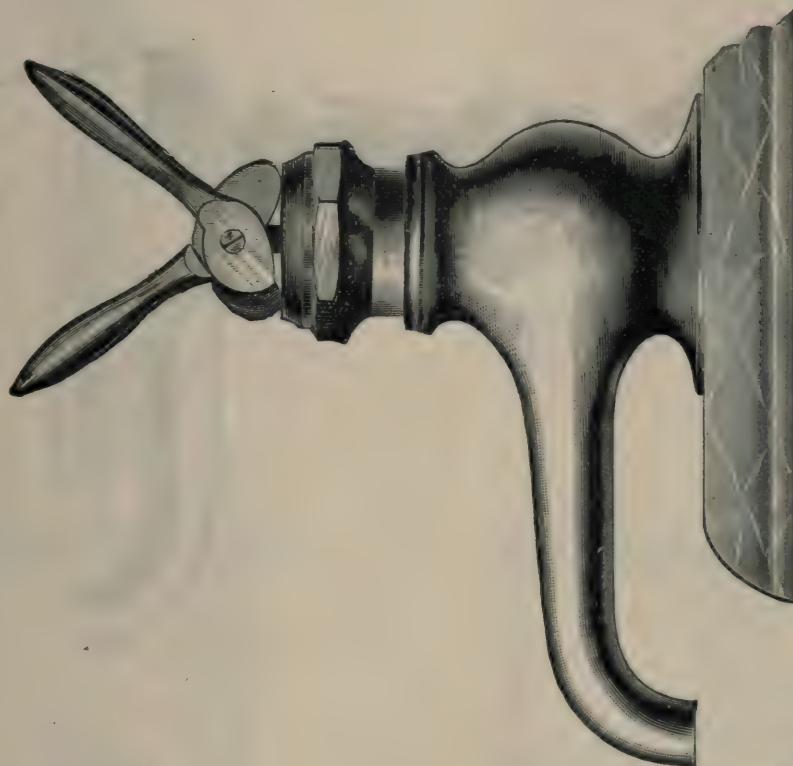
No. 2—Fig. 1233.



Finished.....Price per dozen 45.00
Nickel Plated.....“ “ 48.00

Self Closing Basin Cocks.

No. 5. Fig. 1236.



Finished.....	price per dozen	45.00
Nickel Plated.....	"	48.00

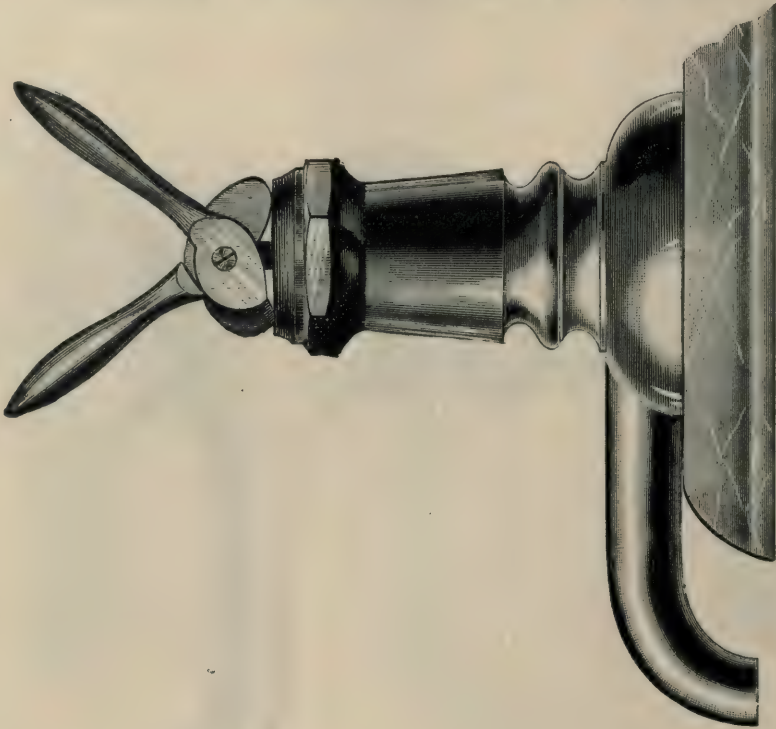
No. 4.—Fig. 1235.



Finished.....	price per dozen	45.00
Nickel Plated.....	"	48.00

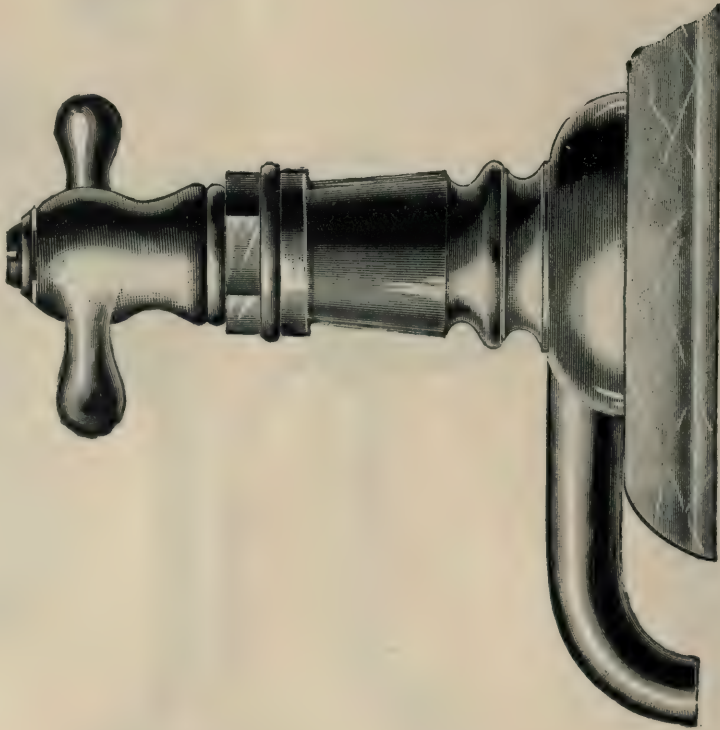
Self Closing Basin Cocks.

No. 7.—Fig. 1238.



Finished price per dozen 45.00
Nickel Plated " 48.00

No. 6 —Fig. 1237.



Finished price per dozen 45.00
Nickel Plated " 48.00

Shampooing Cocks.

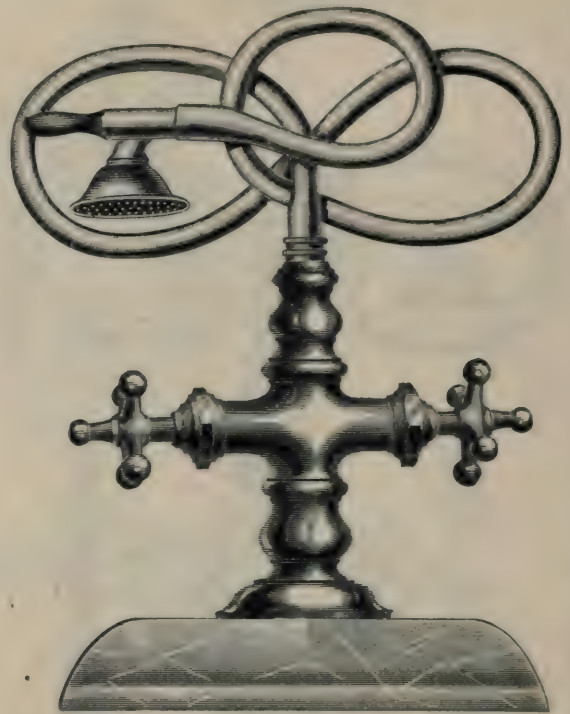
Swing Bracket Cock.

Fig. 1239.



Double Compression Cock With Tube and Sprinkler.

Fig. 1240.



Shampooing Sprinkler For Rubber Tube.

Fig. 1240½.



Fig. 1239.	Swing Bracket Cock, Finished	Price each	2.50
"	" " " N. Plated	"	2.85
" 1240.	Double Compression Cock, Finished	"	12.00
"	" " " N. Plated	"	13.00
" 1240½.	Shampooing Sprinkler, Finished	"	1.08
"	" " " N. Plated	"	1.25

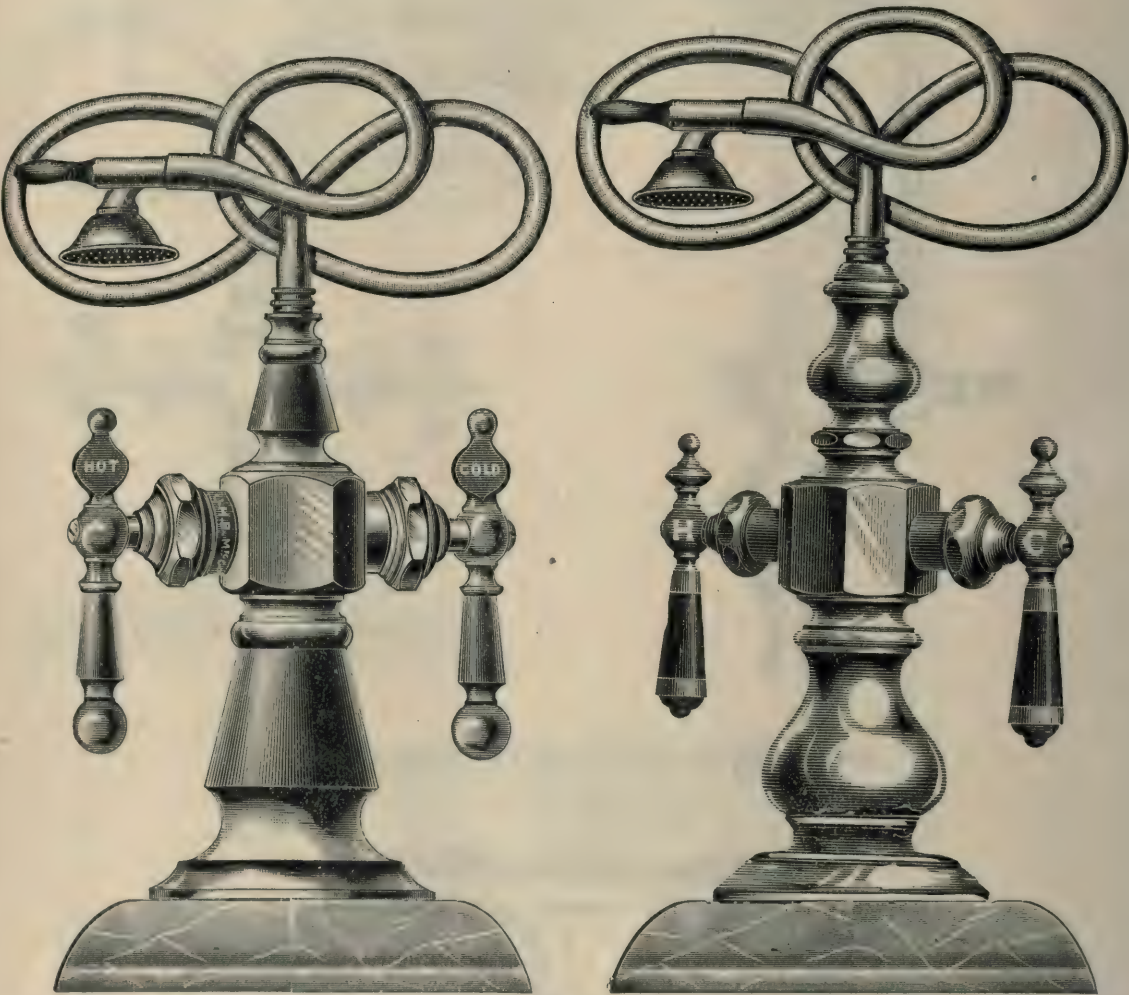
Improved Fuller's Double Shampooing Cocks

No. 8. With Brass Handles.

No. 9. With Brass Handles.

Fig. 1241.

Fig. 1242.

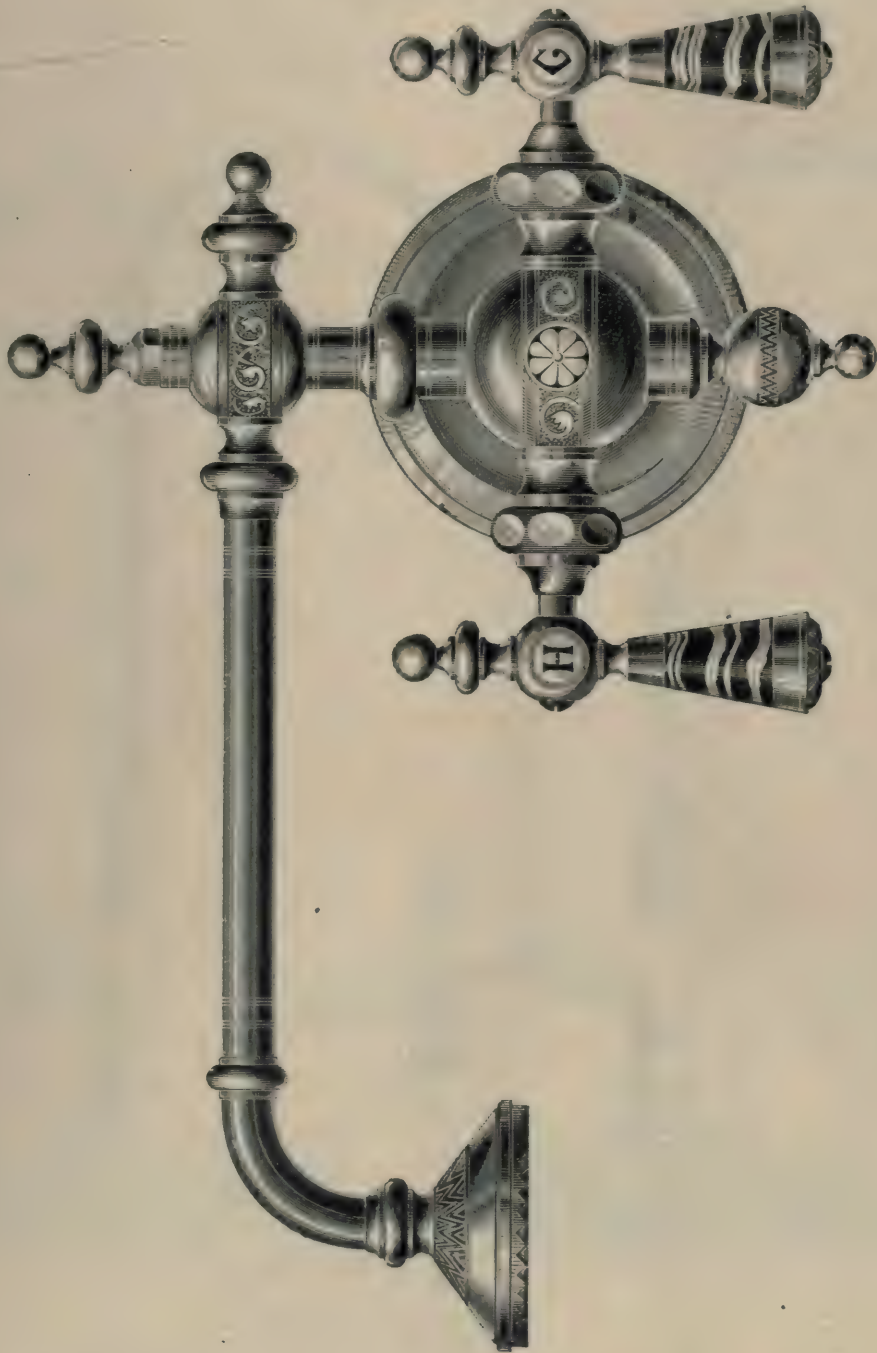


			Finished.	N. Plated.
Fig. 1241.	No. 8, with Brass Handles.....	Price each	13.00	14.00
" "	No. 8, with Ebony or Ivory Handles.....	"	15.00	16.00
" 1242.	No. 9, with Brass Handles	"	17.00	19.00
" "	No. 9, with Ebony or Ivory Handles.....	"	19.00	21.00

Nos. 8 and 9 correspond in style with Double Basin Cocks of same number.

Combination Bracket Shampooing Cock. Fuller's Improved.

Fig. 1243.



	Polished	N. Plated	Silver Plated
With Brass Handles..... Price each	28.00	30.00	40.00
With Ebony or Ivory Handles..... "	30.00	32.00	42.00

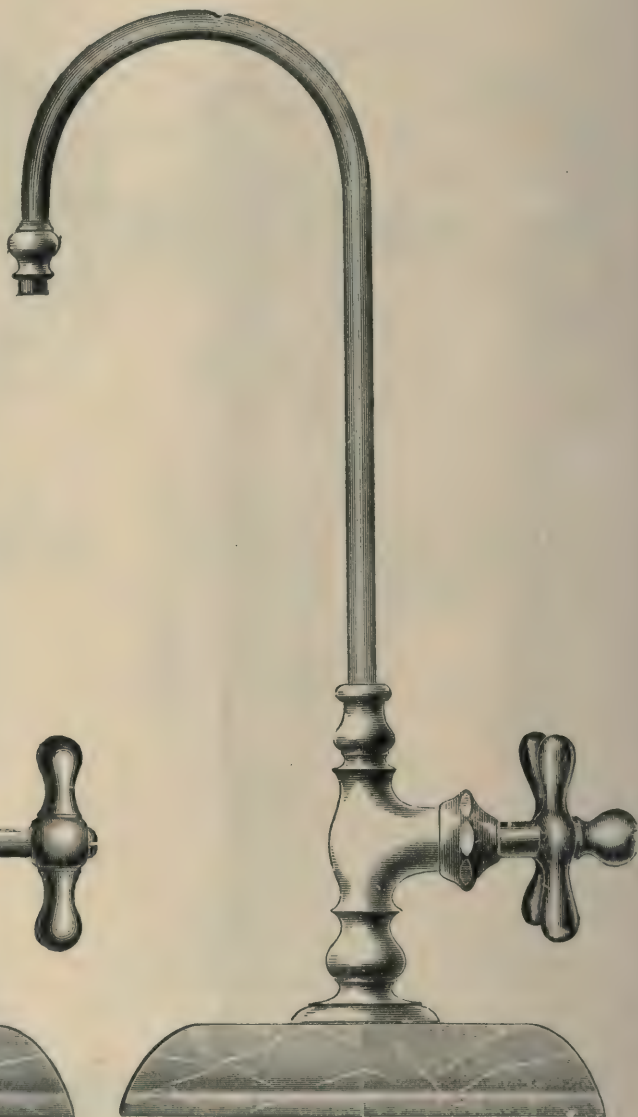
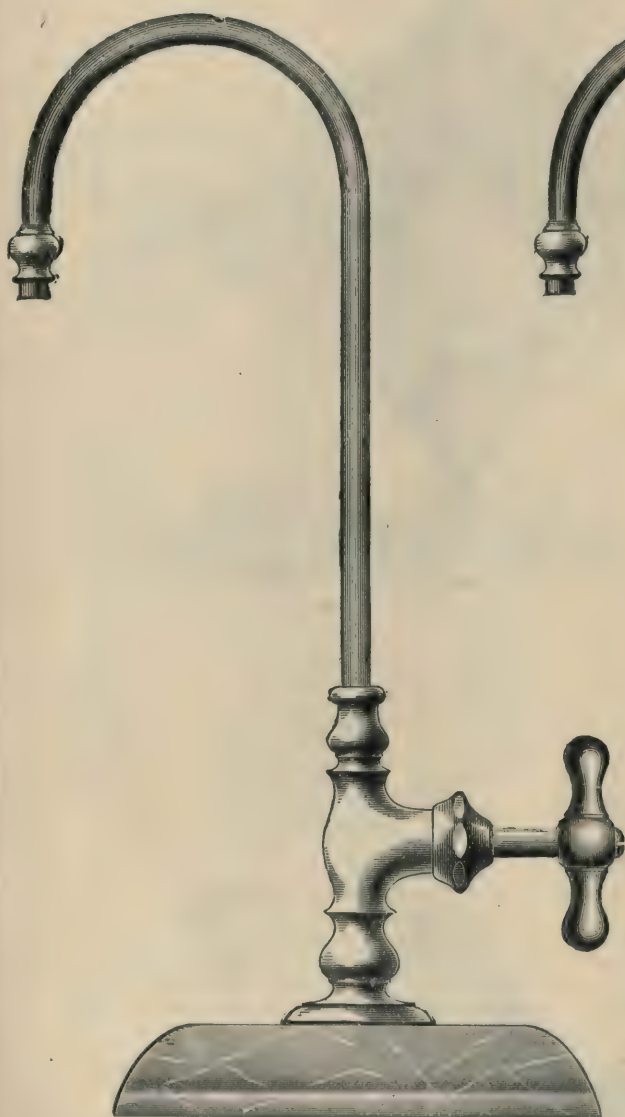
Compression Pantry Cocks.

T Handle.

Fig. 1244.

X Handle.

Fig. 1245.



		Pol. Brass.	N. Plated.
Fig. 1244.	T Handle.....Price per dozen	30.00	34.00
"	1245. X Handle....." "	32.00	36.00

Compression Pantry Cocks.

With Hose End.

T Handle.

Fig. 1246.

X Handle.

Fig. 1247.



			Pol. Brass.	N. Plated.
Fig. 1246.	T Handle	Price per dozen	33.00	37.00
" 1247.	X "	" "	35.00	39.00

Pantry Cocks.

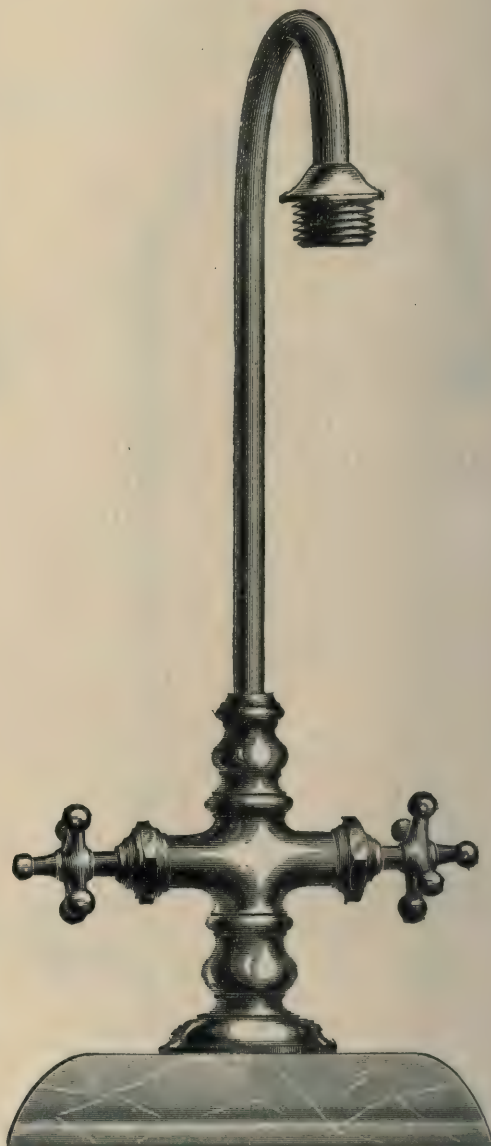
**Double Compression with
X Handle.**

Fig. 1248.



**Double Compression with
X Handle and Hose End.**

Fig. 1249.



	Pol. Brass.	N. Plated.
Fig. 1248. Plain .....Price each	11.00	12.00
" 1249. With Hose End..... "	14.00	15.00

Lever Handle Pantry Cocks.

Plain.

Fig. 1250.

With Hose End.

Fig. 1251.



		Pol. Brass.	N. Plated.
Fig. 1250.	Plain	30.00	34.00
"	1251. With Hose End.....	33.00	37.00

Price per dozen

" "

Improved Fuller's Pantry Cocks.

No. 1, Plain.

Fig. 1252.

No. 2, Plain.

Fig. 1253.



						Polished Brass.	Nickel Plated.
Fig. 1252.	No. 1. Plain.....	Price per dozen				36.00	42.00
" "	No. 1. With Hose End.....	" "				38.00	45.00
" 1253.	No. 2. Plain.....	" "				42.00	50.00
" "	No. 2. With Hose End.....	" "				44.00	53.00

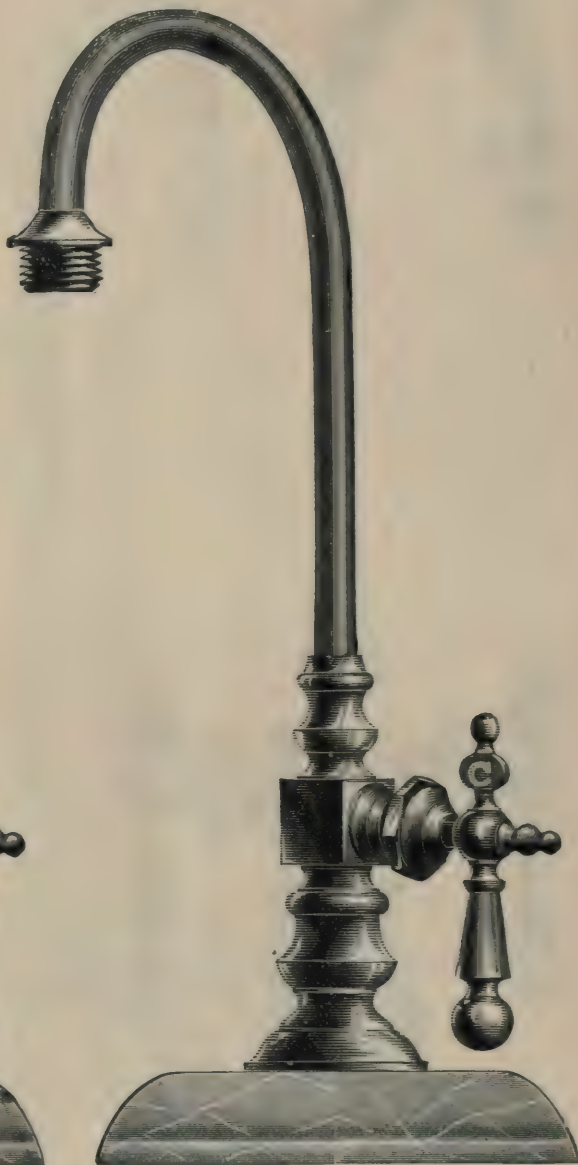
Improved Fuller's Pantry Cocks.

No. 3. Plain.

Fig. 1254.

No. 3. With Hose End.

Fig. 1255.



						Polished Brass.	Nickel Plated.
Fig. 1254.	No. 3, Plain	.....	Price per doz.			50.00	60.00
" "	No. 3, Plain with Ebony or Ivory Handles	" "	" "			62.00	72.00
" 1255.	No. 3, With Hose End	.....	" "			52.00	63.00
" "	No. 3, " & Ebony or Ivory Hdls.	" "	" "			64.00	75.00

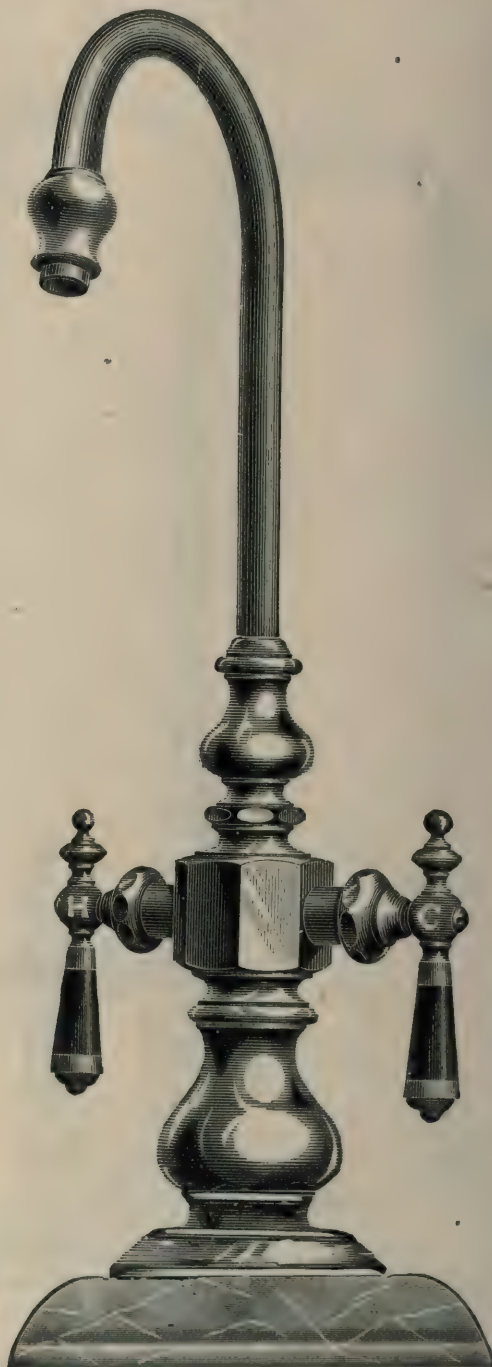
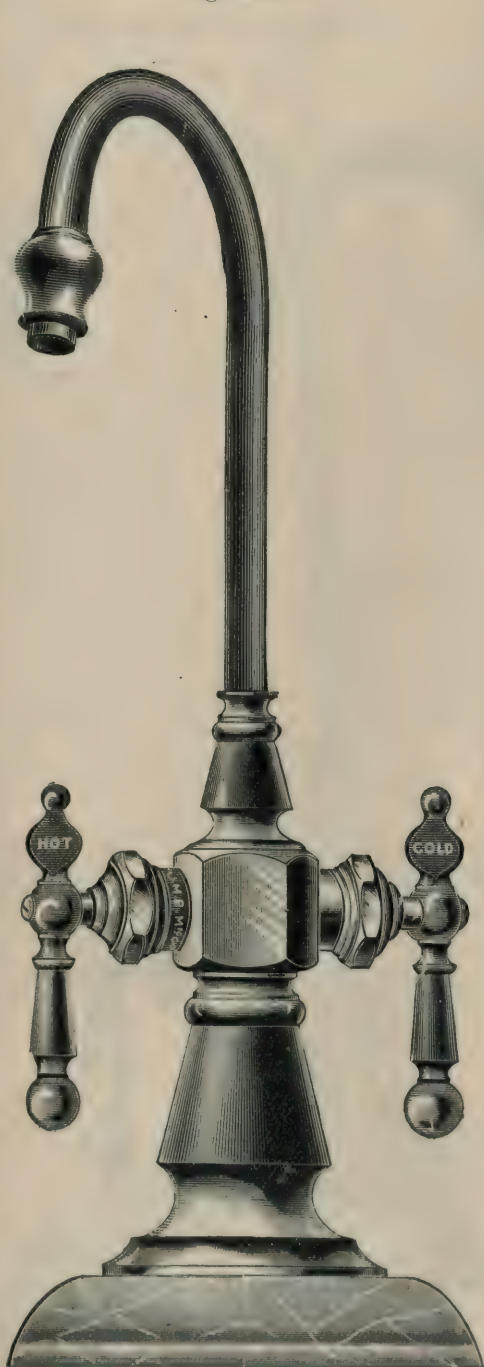
Fuller's Improved Double Pantry Cocks.

No. 8. Plain.

Fig. 1256.

No. 9. Plain.

Fig. 1257.

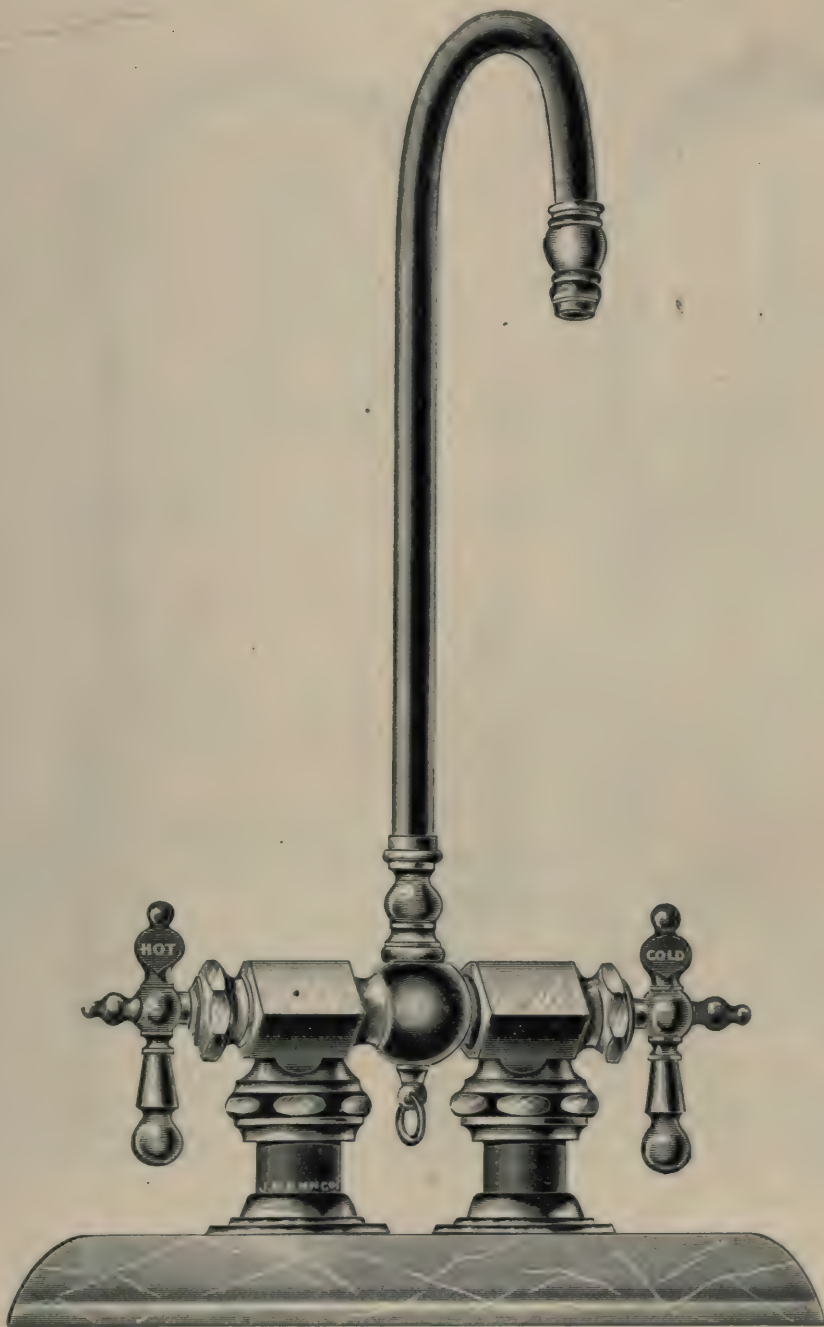


		Polished Brass.	Nickel Plated.
Fig. 1256.	No. 8, with Brass Handles.....	12.00	13.00
"	" No. 8, with Ebony or Ivory Handles.....	14.00	15.00
" 1257.	No. 9, with Brass Handles.....	18.00	20.00
"	" No. 9, with Ebony or Ivory Handles.....	20.00	22.00

Improved Fuller's Double Pantry Cock.

Fig. 1258.

No. 10.



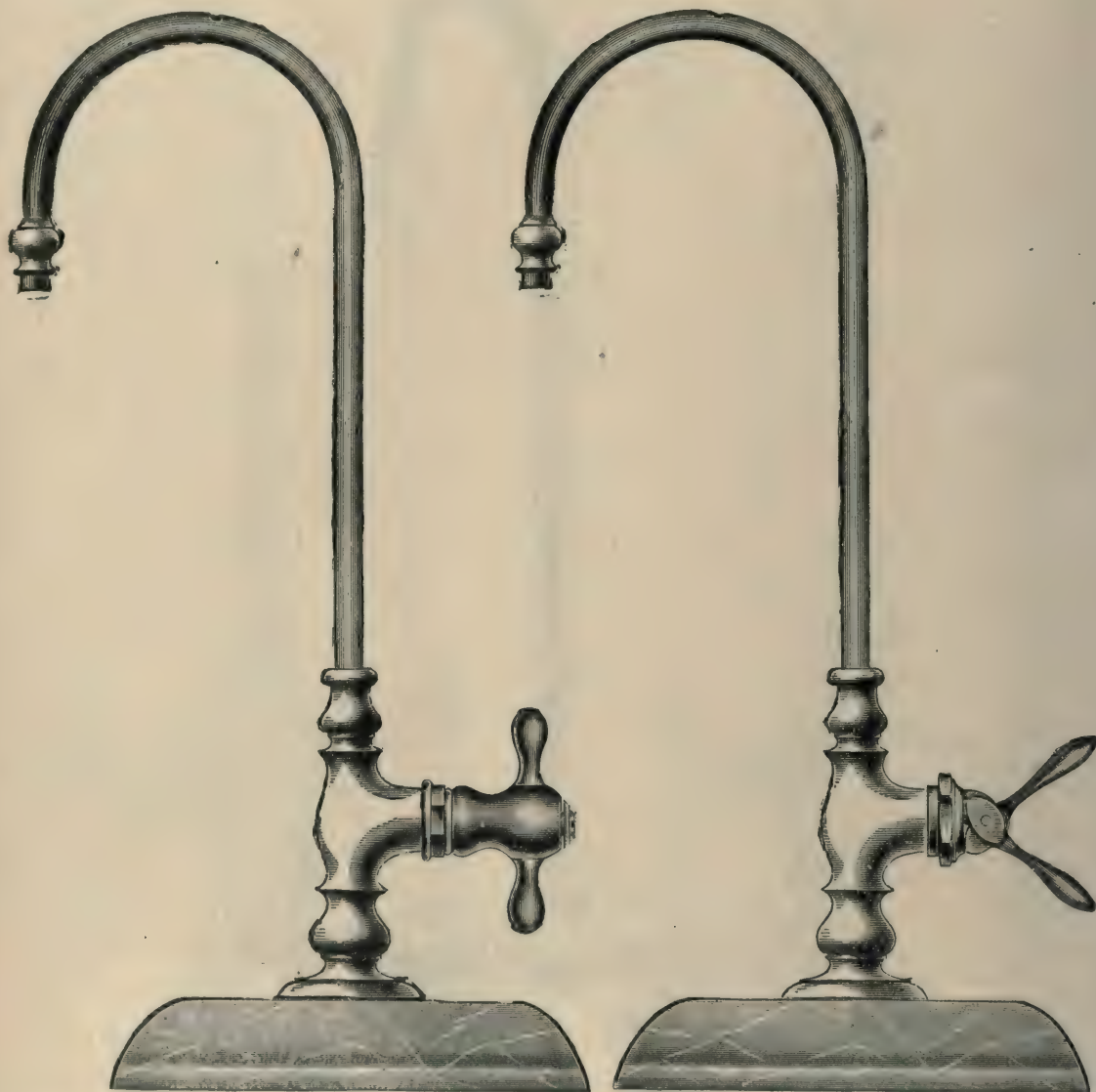
Finished, with Brass Handles.....	Price each	13.00
Nickel Plated " " "	"	15.00
If with Ebony or Ivory Handles.....		Add each 2.00

Self Closing Pantry Cocks.

Boston Pattern.
Double Lever.

Fig. 1259.

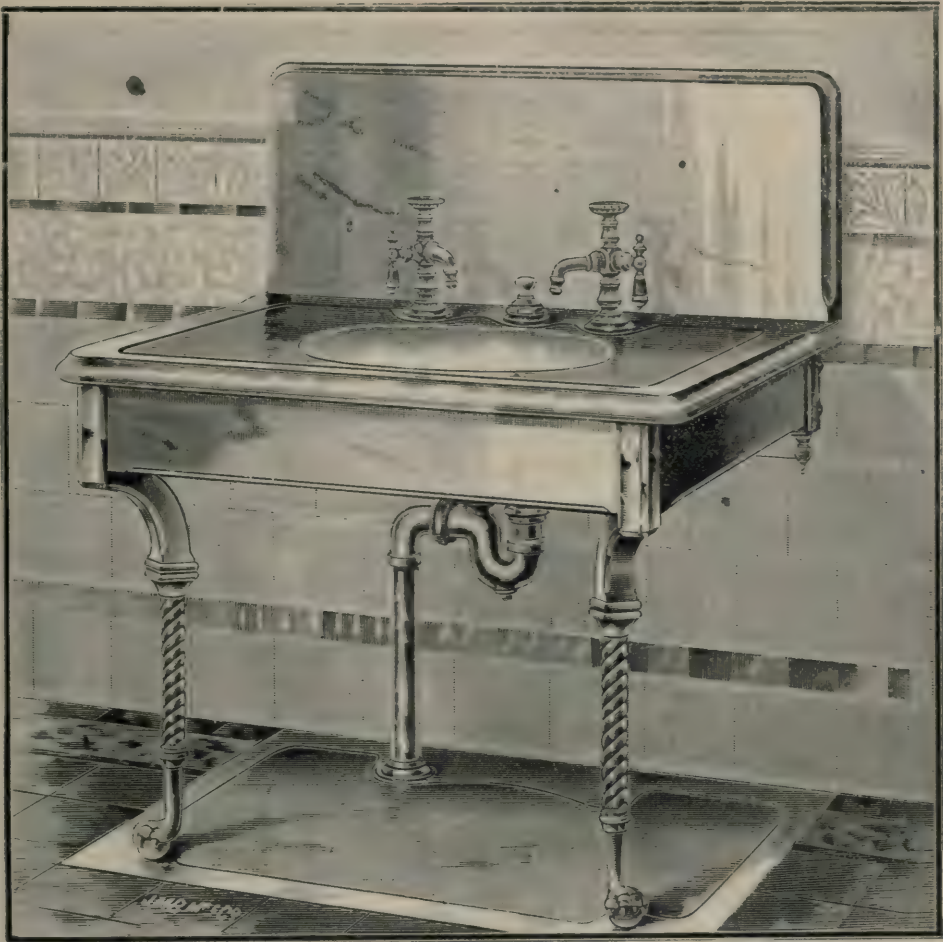
Fig. 1260.



			Polished Brass.	Nickel Plated.
Fig. 1259.	Plain	Price per dozen	54.00	60.00
" "	With Hose End.....	" "	57.00	63.00
" 1260.	Plain	" "	54.00	60.00
" "	With Hose End.....	" "	57.00	63.00

Open Lavatory With Legs.

Fig. 1261.

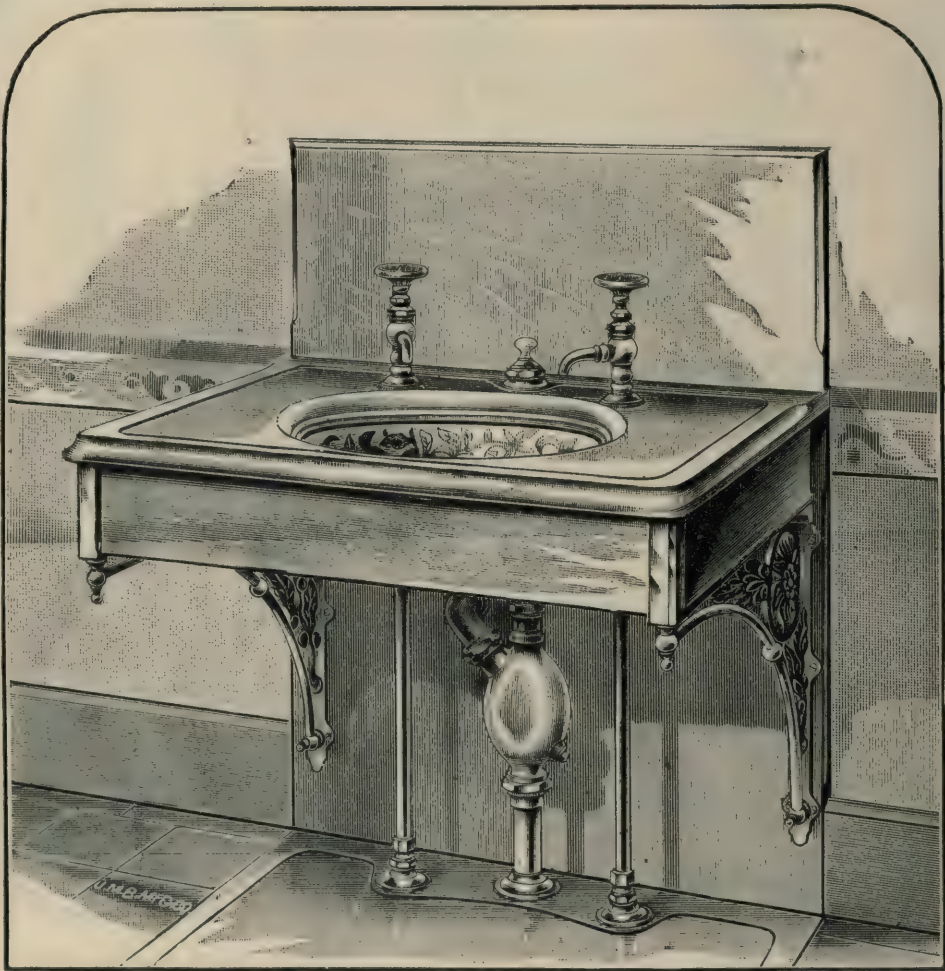


Lavatory—Comprising: Italian Marble Slab 33 x 22 x 1 $\frac{1}{4}$ inch Thick
 Marble Back 15 inches High and 5 inch Aprons
 Oval Wash Basin 19 x 15 inch Marbleized, Brass Legs, Unique Waste and Overflow
 Reliance Trap with Pipe to Floor
 No. 6 Improved Fuller's Basin Cocks, and Brass Apron Holder.
 All Brass Work Nickel Plated.

Price Complete as shewn \$46.00

Open Lavatory with Brackets.

Fig. 1262.



Lavatory—Comprising: Italian Marble Slab 33 x 22 x 1½ Thick

Marble Back 12 inches High, and Apron Pieces 5 inches Wide

Brass Brackets with Apron Holders

Oval Wash Basin 19 x 15 Marble, Elliptic Trap with Pipe to Floor,

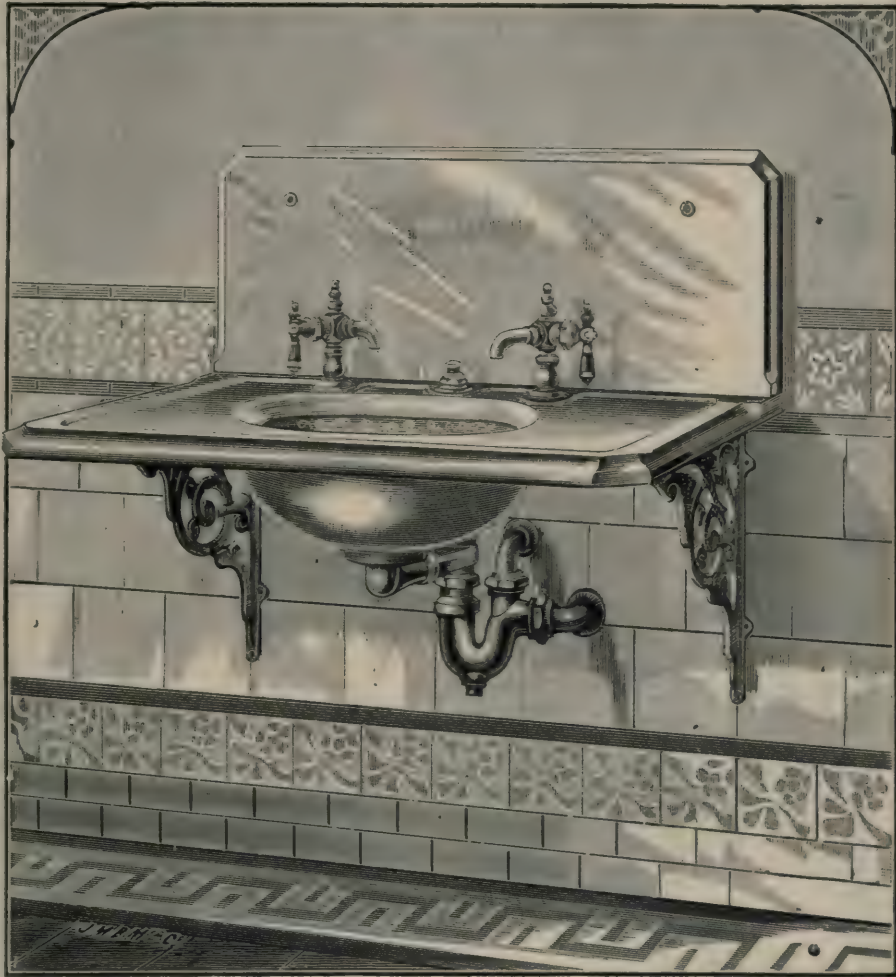
Brass Supply Pipes, Compression Basin Cocks, and Unique Basin Waste.

All Brass Work Nickel Plated.

Price Complete as shewn \$52.00

Open Lavatory Basin.

Fig. 1263.



Lavatory—Comprising: Countersunk Marble Slab 33 x 22 x 1½ inch thick

Marble Back 12 inches high

Oval Marble Wash Basin with Patent Overflow 19 x 15 inch

Cast Brass Brackets, Unique Waste and Overflow

Cast Brass Trap with Vent and Pipe to Wall, Improved Fuller's Basin Cocks

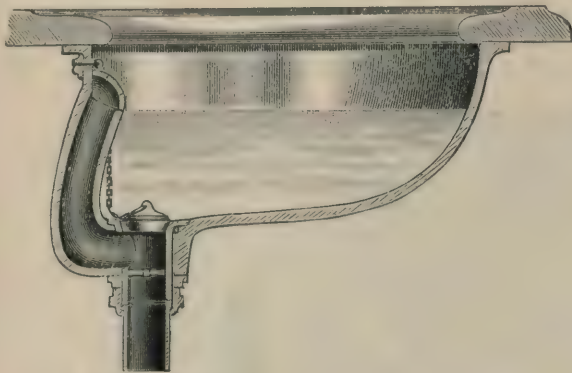
All Brass Work Nickel Plated

Price complete as shewn \$36.00

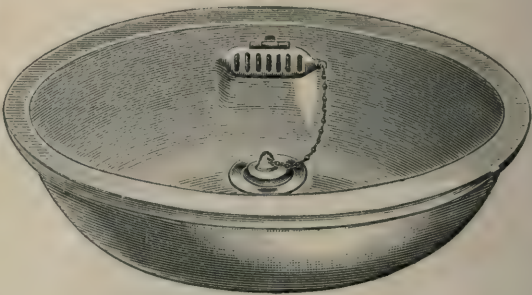
The “Brighton” Oval Wash Basin.

With Plug, Chain and Strainer.

Fig. 1264.



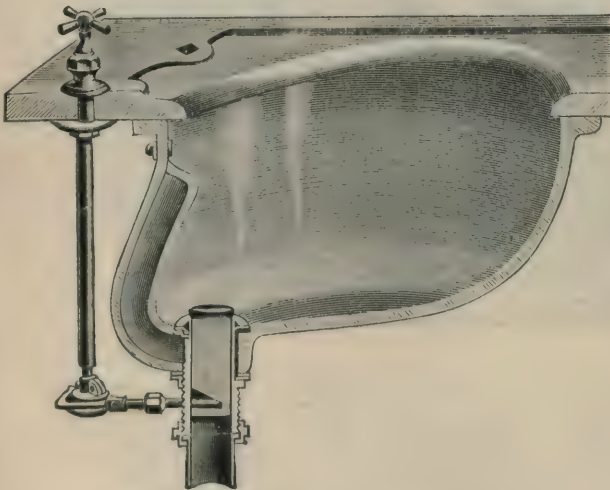
Sectional View.



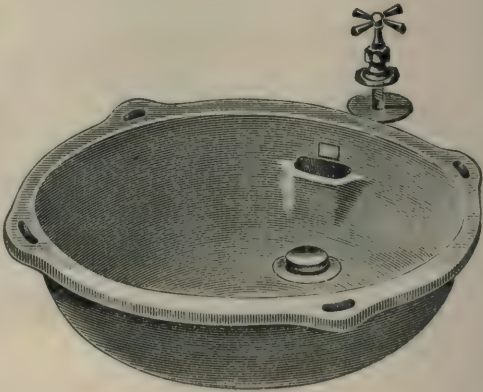
Size of Basin	17 x 14	19 x 15	21 x 16
Polished Brass Plug and Chain.....Price each	12.00	13.50	15.00
N. Plated “ “	12.25	13.75	15.25

With Patent Combined Waste and Plug.

Fig. 1265.



Sectional View.



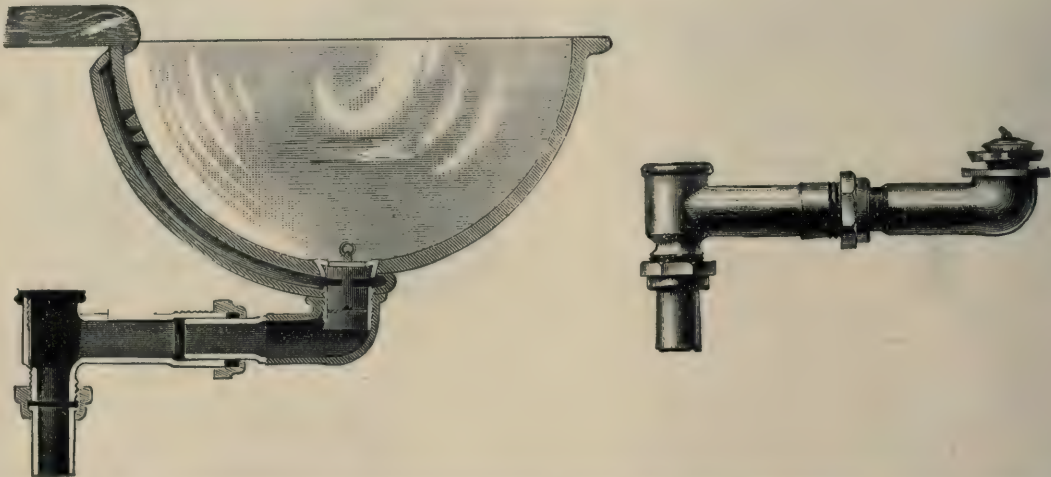
Size of Basin.....	17 x 14	19 x 15	21 x 16
Basin with Waste, Polished Brass.....Price each	20.50	22.00	23.50
“ “ N. Plated	20.75	22.25	23.75

Basin Wastes.

Unique Basin Wastes without Stand or Valve.

FOR PATENT OR NO OVERFLOW BASINS.

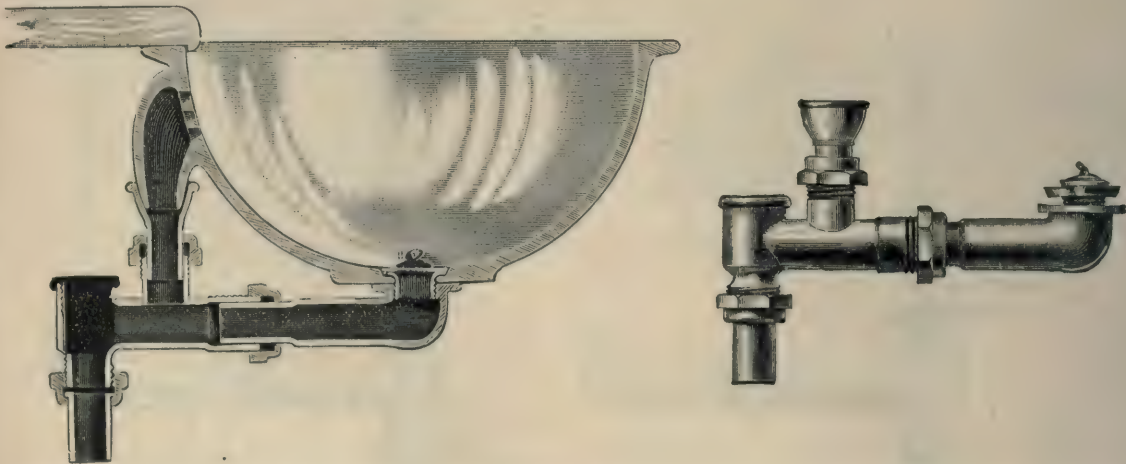
Fig. 1272.



Description.....	Plug Only		All Over	
	Polished	N. Plated	Polished	N. Plated
Waste for Patent, or No Overflow Basin, Price each	3.00	3.25	3.50	4.00

For Common Overflow Basin.

Fig. 1273.

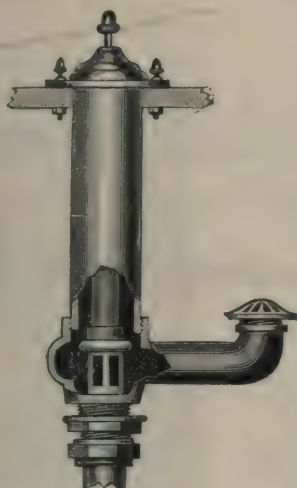


Description.....	Plug Only		All Over	
	Polished	N. Plated	Polished	N. Plated
Waste for Common Overflow Basin....Price each	4.00	4.25	4.50	5.00

Basin Wastes.

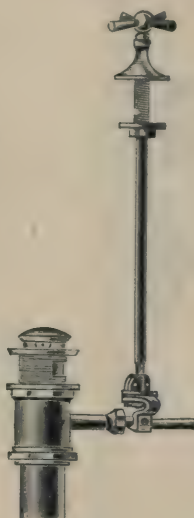
Morrison's Patent Basin Waste.

Fig. 1274.



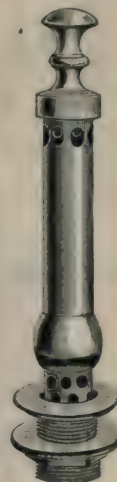
Waste For Brighton Basin.

Fig. 1275.



Waste For Simplex Basin.

Fig. 1276.



		Polished	N. Plated
Fig. 1274.	Morrison's Patent Waste.....	6.00	7.00
" 1275.	Waste for Brighton Basin.....	6.00	7.00
" 1276.	Simplex Basin Waste.....	3.00	3.40

Waste and Overflow Connection For Nonpareil or Auditorium Basin. For Common Overflow Basin.

Fig. 1277.

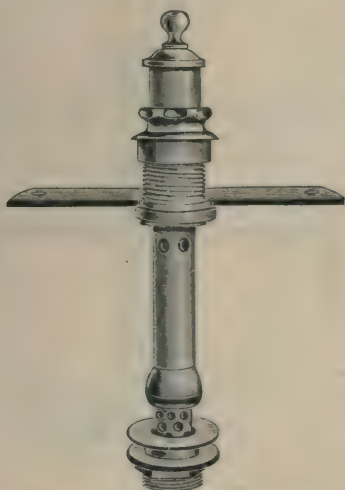
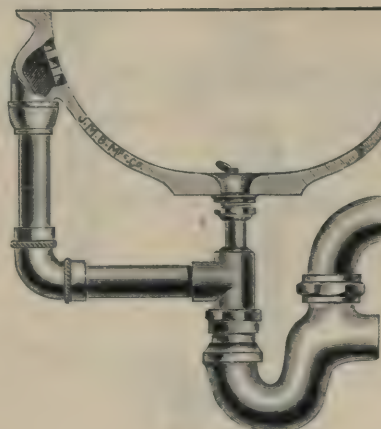


Fig. 1278.



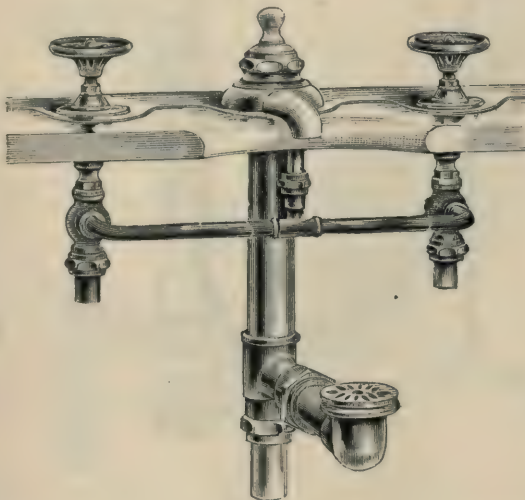
		Polished	N. Plated
Fig. 1277.	Nonpareil Recess Basin Waste.....	3.50	4.00
" 1278.	Waste and Overflow Connection, without Trap...	2.75	3.10

Combination Wastes and Supply.

"Primus" Low Down Supply and Unique Waste.

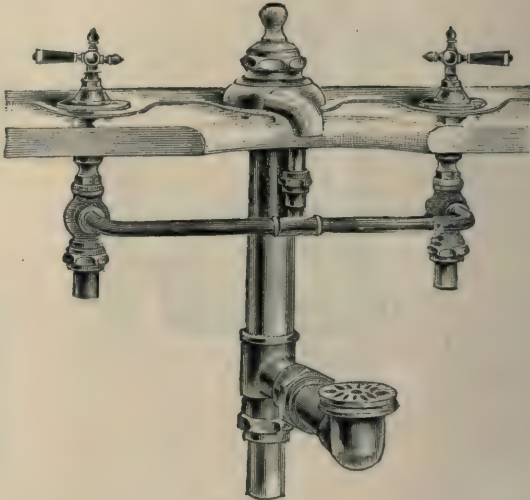
No. 1.—WITH WHEEL HANDLE.

Fig. 1279.



No. 2.—WITH FANCY LEVER HANDLE.

Fig. 1280.

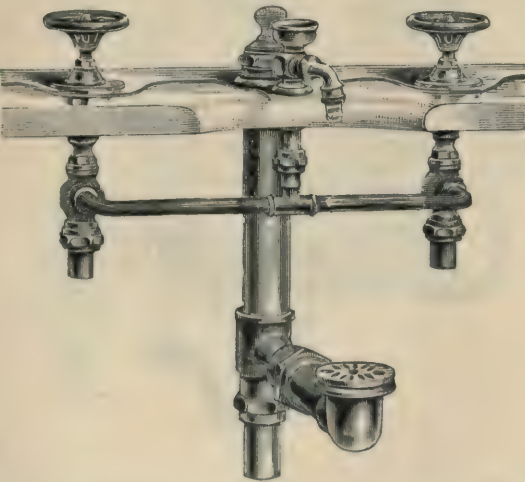


			Polished.	N. Plated.
Fig. 1279.	No. 1, with Wheel Handle.....	Price each	12.00	13.50
" 1280.	No. 2, with Fancy Lever Handle.....	" "	12.00	13.50

"Perfecto" High Supply with Jewel Holder and Unique Waste.

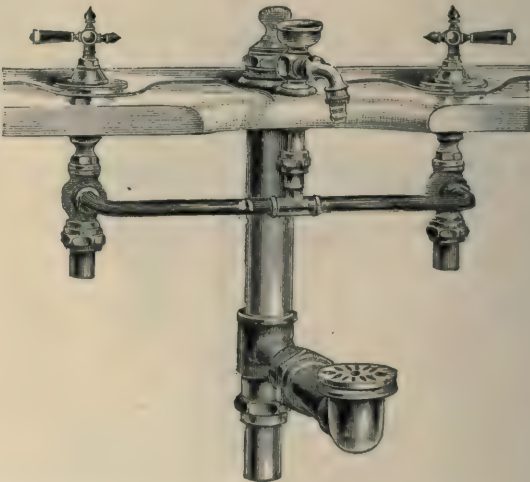
No. 1.—WITH WHEEL HANDLE.

Fig. 1281.



No. 2.—WITH FANCY LEVER HANDLE.

Fig. 1282.



			Polished.	N. Plated.
Fig. 1281.	No. 1, with Wheel Handle.....	Price each	13.00	14.50
" 1282.	No. 2, with Fancy Lever Handle.....	" "	13.00	14.50

Basin Supply Fittings.

Valves.

Supply Pipes.

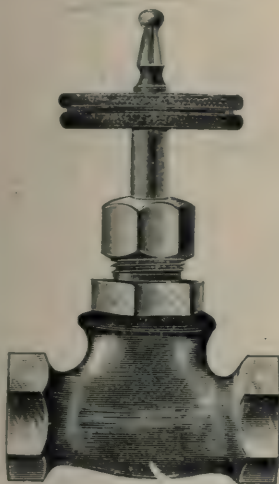
GLOBE VALVE.
Fig. 1283.

ANGLE VALVE.
Fig. 1284.

No. 1. No. 2.
Fig. 1285. Fig. 1286.

No. 3.
Fig. 1287.

No. 4.
Fig. 1288.



	Polished.	N. Plated.
Fig. 1283. Globe Valve with Brass Wheels,	1.75	1.90
" 1284. Angle " " "	1.75	1.90
" 1285. No. 1 Supply Pipe, with Coupling and Floor Flange "	2.50	2.75
" 1286. " 2 " " " Stop Cock "	4.25	4.75
" 1287. " 3 " " " Air Chamber "	4.50	5.00
" 1288. " 4 " " " " and Cock "	6.25	7.00

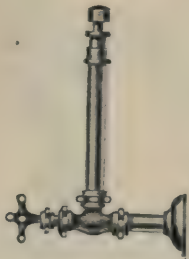
Supply Pipes.

No. 5.
Fig. 1289.

No. 6.
Fig. 1290.

No. 7.
Fig. 1291.

No. 8.
Fig. 1292.



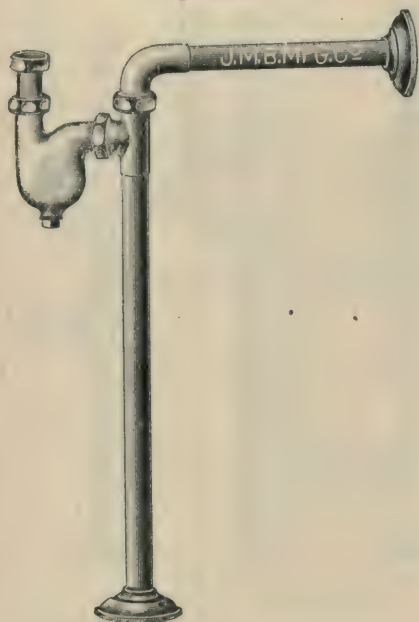
	Without Air Chamber.		With Air Chamber.	
	No. 5.	No. 6.	No. 7.	No. 8.
Polished.....Price each	2.25	3.75	4.00	5.75
N. Plated....."	2.50	4.25	4.50	6.50

NOTE.—Basin Supply Pipes are made of $\frac{3}{8}$ Brass Pipe, Iron Pipe Size.

Basin Traps.

The "Gem"

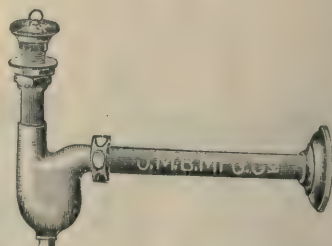
No. 1.
S TRAP WITH VENT.
Fig. 1293.



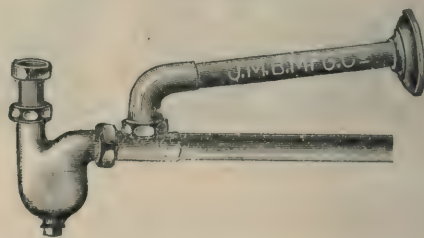
No. 2.
S TRAP WITHOUT VENT.
Fig. 1294.



No. 3.
HALF S TRAP WITHOUT VENT.
Fig. 1295.



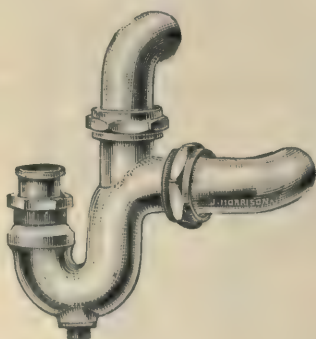
No. 4.
HALF S TRAP WITH VENT.
Fig. 1296.



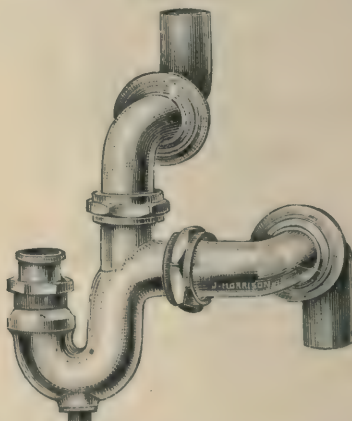
Size, Inches.....	1 $\frac{1}{4}$				1 $\frac{1}{2}$			
Number.....	1	2	3	4	1	2	3	4
"Gem" Traps, Finished, Price each	3.75	3.00	2.75	3.25	5.00	4.50	3.75	4.50
" " N. Plated "	4.00	3.25	3.00	3.50	5.40	4.80	4.00	4.90

Reliance Cast Brass Traps.

TRAP WITH COUPLING RINGS
AND TAILS.
Fig. 1297.



TRAP WITH COUPLING RINGS, BENT TAILS
AND BRASS FLANGES.
Fig. 1298.



	Polished	N. Plated
Fig. 1297. Trap with Coupling Rings and Tails..... Price each	5.00	5.75
" 1298. Trap with Coupl. Rings, Bent Tails and Brass Flanges "	6.00	7.00

Basin Traps.

Elliptic Cast Brass Traps.

Fig. 1299.



The "Montgomery" Patent Trap.

WITH PIPE TO FLOOR AND WALL.

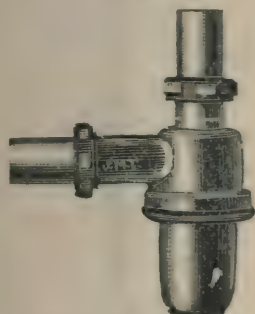
Fig. 1300.



Description.....	Polished Brass.			Nickel Plated.		
	Trap Only.	Trap with Pipe to Floor.	Trap with Pipe to Floor and Wall	Trap Only.	Trap with Pipe to Floor.	Trap with Pipe to Floor and Wall.
Fig. 1299. 1½" Elliptic Trap....each	6.25	7.50	8.75	7.00	8.50	10.00
" 1300. 1½" Montgomery Trap "	5.00	6.50	8.00	5.50	7.00	8.50

"Morrison's" Patent Spun or Cast Brass Basin Traps.

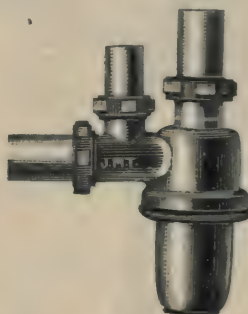
HALF S TRAP.
WITHOUT AIR VENT.
Fig. 1301.



S TRAP.
WITHOUT AIR VENT.
Fig. 1302.



HALF S TRAP.
WITH AIR VENT.
Fig. 1303.



S TRAP.
WITH AIR VENT.
Fig. 1304.

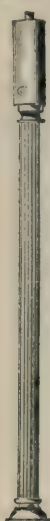


Description.....		Spun Metal.				Cast Brass.			
		Half S Trap.		S Trap.		Half S Trap.		S Trap.	
		Pol.	N. Plated	Pol.	N. Plated	Pol.	N. Plated	Pol.	N. Plated
Figs. 1301, 1302	1½ x 1½, without Air Vent, each	3.00	3.40	3.10	3.50	4.00	4.40	4.20	4.60
	1½ x 1½, " " " "	3.75	4.20	3.90	4.40	5.00	5.40	5.20	5.60
	1½ x 2, " " " "	4.00	4.50	4.25	4.75	5.50	5.90	5.75	6.00
Figs. 1303, 1304	1½ x 1½, with " " " "	3.60	4.10	3.75	4.25	5.00	5.40	5.20	5.60
	1½ x 1½, " " " "	4.60	5.10	4.75	5.25	6.25	6.75	6.50	7.00
	1½ x 2, " " " "	5.00	5.50	5.25	5.75	6.75	7.25	7.00	7.50

Open Lavatory Legs.

The "Gem."

No. 1. No. 2. No. 3. No. 4. No. 5. No. 6. No. 7. No. 8.
Fig. 1305. Fig. 1306. Fig. 1307. Fig. 1308. Fig. 1309. Fig. 1310. Fig. 1311. Fig. 1312.



Description.	Plain Tube.		Fluted Tube.				Rope Tube.	
	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
Polished Brass..... Price each	3.00	3.25	3.25	3.50	3.75	4.00	3.25	3.50
Nickel Plated..... " " "	3.50	3.75	3.75	4.00	4.25	4.50	3.75	4.00

No. 9. No. 10. No. 11. No. 12. No. 13. No. 14.
Fig. 1313. Fig. 1314. Fig. 1315. Fig. 1316. Fig. 1317. Fig. 1318.

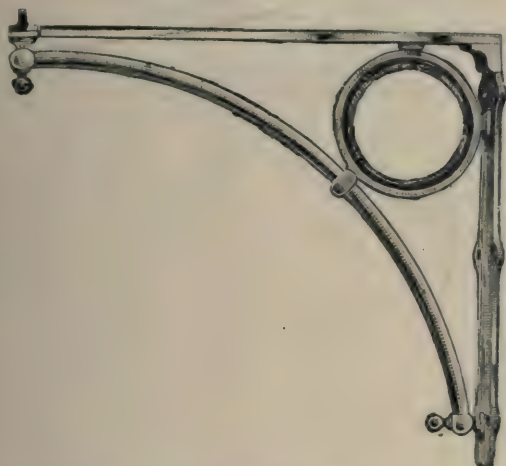


Description	Rope Tube		Rope or Fluted Tube No. 11	Plain Tube No. 12	Plain Tube No. 13	Cast Iron No. 14
	No. 9	No. 10				
Polished Brass..... Price each	3.75	4.00	4.25	4.25	4.00	.....
Nickel Plated..... " " "	4.25	4.50	4.75	4.75	4.50	.....
Bronzed Iron..... " " "	.....	.....	.....	.....	.....	1.25

Basin Brackets.

Without Apron Pieces.

No. 1—Fig. 1319.



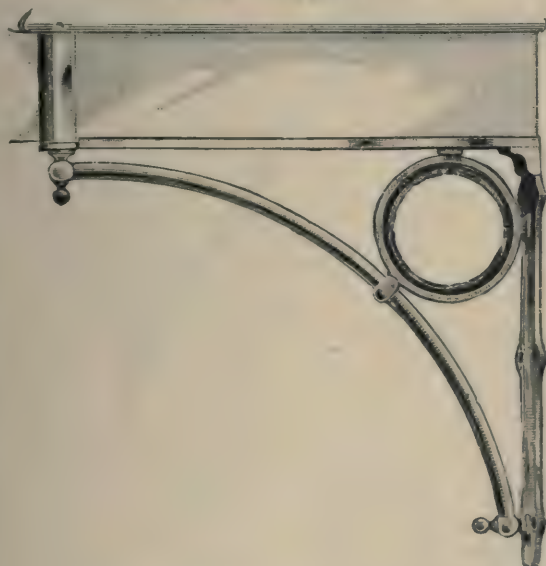
No. 2—Fig. 1320.



					Polished.	N. Plated.
Fig. 1319.	No. 1.	Brass,	size 19 x 21.....	Price per Pair	12.00	13.75
" 1320.	" 2.	" "	" " " " " " " " " " " "	" "	15.50	17.25

With Apron Pieces.

No. 3.—Fig. 1321.



No. 4.—1322.



					Polished.	N. Plated.
Fig. 1321.	No. 3.	Brass,	size 19 x 21.....	Price per Pair.	12.50	14.25
" 1322	" 4.	" "	" " " " " " " " " " " "	" "	16.00	17.75

Basin Brackets.

Brass.

No. 5.—Fig. 1323.



No. 6.—Fig. 1324.



					Polished	N. Plated
Fig. 1323.	No. 5.	Size, 14½ x 15½ inches	.....	Price per Pair	7.00	8.00
" 1324,	" 6.	" 14½ x 15½ "	.....	"	5.25	5.50

Three Piece Basin Brackets.

No. 7.—PLAIN TUBE.—Fig. 1325.



No. 8.—FANCY TUBE.—Fig. 1326.



							Polished	N. Plated
Fig. 1325.	No. 7.	Size 14½ x 15 inches, Finished all over,	Price per Pair				4.60	5.00
"	"	" 14½ x 15 "	"	"	Edges only	"	3.60	4.00
"	"	" 18 x 18 "	"	"	all over	"	6.75	7.20
"	"	" 18 x 18 "	"	"	Edges only	"	5.55	6.00
Fig. 1326.	No. 8.	" 14½ x 15 "	"	"	all over	"	5.20	5.60
"	"	" 14½ x 15 "	"	"	Edges only	"	4.20	4.60
"	"	" 18 x 18 "	"	"	all over	"	7.65	8.00
"	"	" 18 x 18 "	"	"	Edges only	"	6.35	6.80

Basin Brackets.

Cast Iron.

No. 9.—Fig. 1327.



No. 10.—Fig. 1328.



				Plain	Japanned	Galv.	Polished and N.Plated
Fig. 1327.	No. 9.	Size $14\frac{1}{2} \times 15\frac{1}{2}$ inches,	Price per Pair	1.20	1.35	2.75	3.25
" 1328.	" 10.	" 16 x 18 "	" "	.....	.....	.....	2.25

Basin Bracket.

No. 11.—Fig. 1329.



				Cast Iron			Brass	
				Plain	Japanned	Galv.	Polished Edges	N.Plated
Fig. 1329.	No. 11.	Size 18 x 18,	Price per Pair	1.35	1.50	2.50	10.00	11.00

Basin Plugs.

With Brass Plugs.

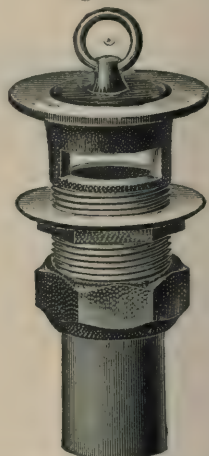
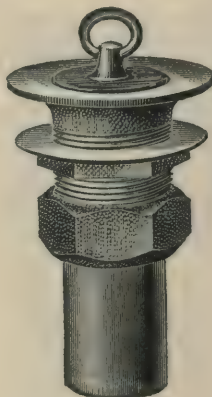
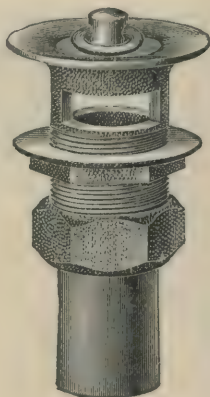
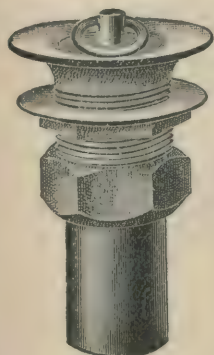
Com. Overflow Basin.
Fig. 1330.

Pat. Overflow Basin.
Fig. 1331.

With Rubber Plugs.

Com. Overflow Basin.
Fig. 1332.

Pat. Overflow Basin.
Fig. 1333.



Size	1		1 1/4	
Description	Finished	N. Plated	Finished	N. Plated
Fig. 1330, with Brass Plugs..... Price per dozen	8.00	8.50	10.50	11.00
" 1331, " " " " " "	9.00	9.50	11.50	12.00
" 1332, with Rubber Plugs.... " " " "	8.25	8.75	10.75	11.25
" 1333, " " " " " "	9.25	9.75	11.75	12.25

Improved Basin Plug.

Common Overflow.
Fig. 1334.

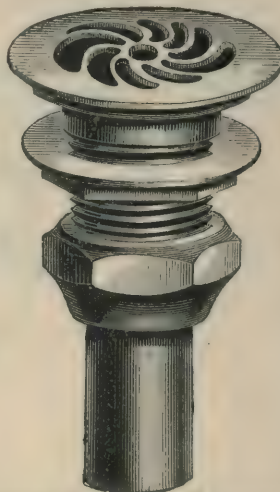
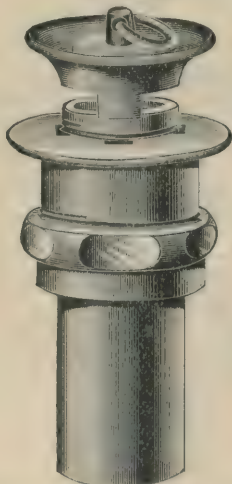
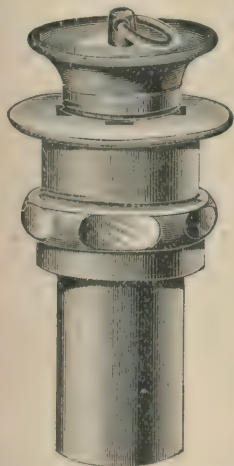
Patent Overflow.
Fig. 1335.

Basin Grate.

Fig. 1336.

Rubber Plug.

Fig. 1337.



Size	1		1 1/4	
Description.....	Finished	N. Plated	Finished	N. Plated
Fig. 1334, Com. Overflow..... Price per dozen	12.00	13.00	13.50	14.50
" 1335, Pat. Overflow..... " " " "	13.00	14.00	14.50	15.50
" 1336, Basin Grating..... " " " "	12.00	13.00	13.50	14.50

Fig. 1337.—Rubber Plug.

Size, diam. inches.....	7/8	1	1 1/8	1 1/4	1 1/2	2
Price per dozen, Plated Rings.....	2.00	2.00	2.00	2.50	3.50	5.00

Chain Stays.

No. 0.—Fig. 1338. No. 1.—Fig. 1339. No. 2.—Fig. 1340. No. 3.—Fig. 1341. No. 4.—Fig. 1342.



No. 5.—Fig. 1343.

No. 6.—Fig. 1344.

No. 7.—Fig. 1345.

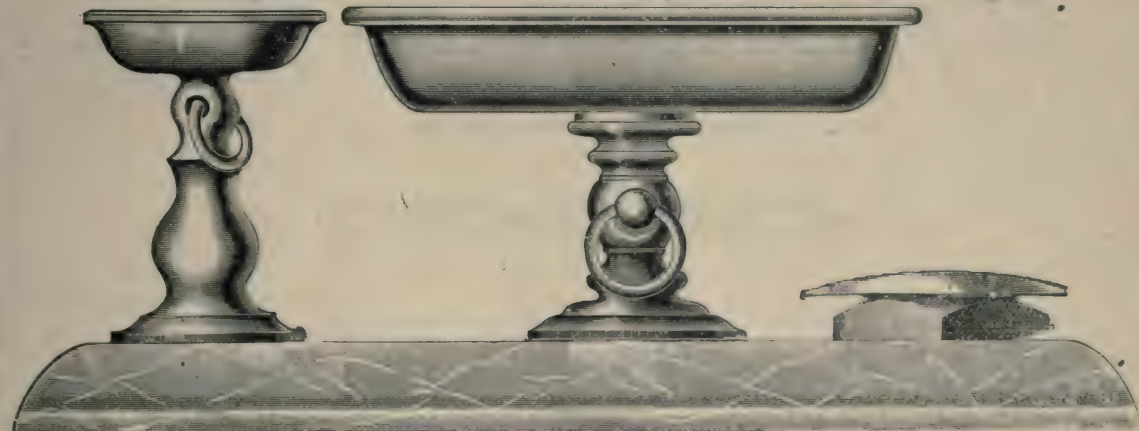
No. 8.—Fig. 1346.



No. 9.—Fig. 1347.

No. 10.—Fig. 1348.

No. 11.—Fig. 1349.



Number.....	0	1	2	3	4	5	6	7	8	9	10	11
Finished.. Price per doz.	2.00	2.00	3.00	3.50	3.50	6.50	5.50	8.00	9.00	8.00	36.00	3.50
N. Plated.. " "	2.50	2.50	3.75	4.25	4.25	7.50	6.50	9.00	10.00	9.00	39.00	4.25

Basin Fittings.

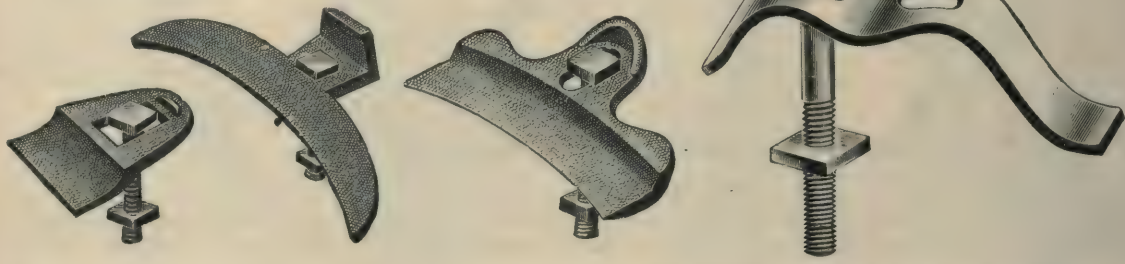
Basin Clamps.

No. 1.
Fig. 1350

No. 2.
Fig. 1351.

No. 3.
Fig. 1352.

No. 4.—Fig. 1353.



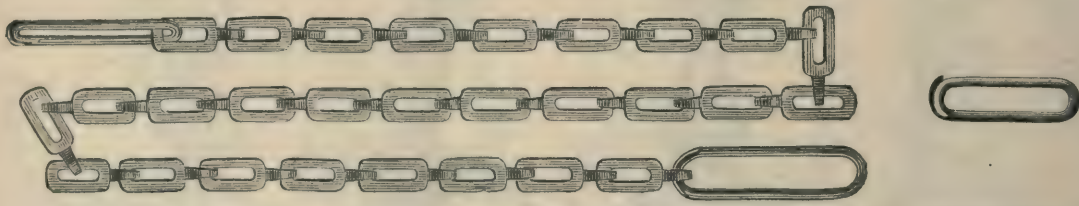
Number.....	1	2	3	4
With Bolts.....Price per dozen	1.25	1.50	2.00	2.00

Basin Chains.

Fig. 1354.

Long Split Links.

Fig. 1355.



Number.....	No. 0 Chains	No. 1 Chains	Split Links
Brass Lacquered.....Price per Dozen	1.25	1.35	.22
“ Silver Plated..... “ “	1.35	1.45	
“ Nickel Plated..... “ “	1.40	1.50	.25

Plumbers' Brass Chain.

Fig. 1356.

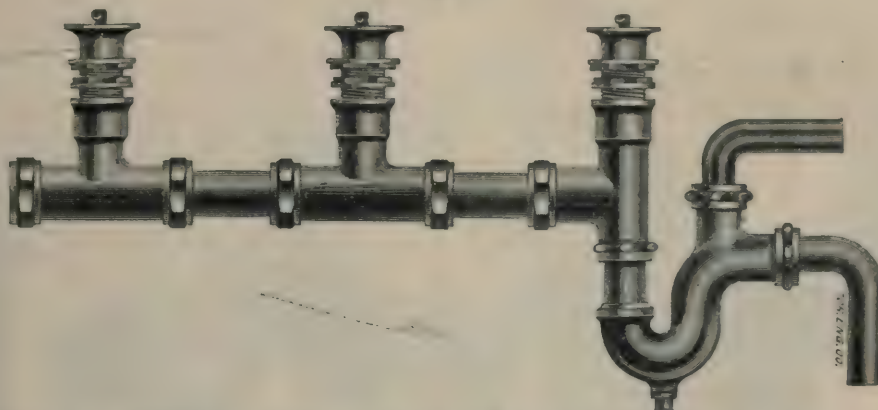


	No. 0 Chain	No. 1 Chain
Brass Lacquered Chain.....Price per Box of 12 Yards	1.70 .	1.90
“ Nickel Plated “ “ “ “	1.80	2.00
Brass Lacquered Chain, on Reels of 500 ft.....Price per 100 feet	4.60	5.00
“ N. Plated “ “ “ “ “ “	5.00	5.50

Basin Fittings.

Combination Waste and Trap for Range of Wash Basins.

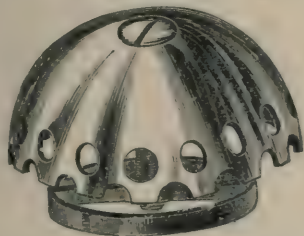
Fig. 1357.



As there is no Standard Length or Distance between Basins when set up in Ranges of 2 or more, these Combinations are only made to Order. When ordering give number of Basins and distance, centre to centre, and whether Common or Patent Overflow and whether wanted Finished or Nickel Plated. Prices on application.

Basin Floor Slab Waste.

Fig. 1358.



Soap Tray.

Fig. 1359.



Apron Holders.

Fig. 1360. Fig. 1361.



Corner.

Back.

Fig. 1358.—Basin Floor Slab Waste.

	Finished.		Nickel Plated.	
Size, Diam., Inches	2 $\frac{3}{8}$	2 $\frac{3}{4}$	2 $\frac{3}{8}$	2 $\frac{3}{4}$
Price each.....	40	50	50	60

Fig. 1359.—Soap Tray.

Size, 5 x 3 $\frac{1}{2}$ inches, Nickel Plated	Price each, \$2.25
---	--------------------

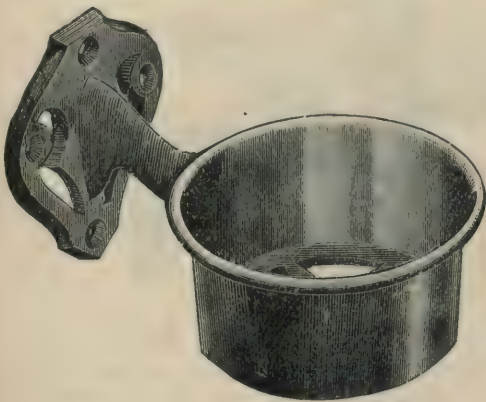
Figs. 1360 and 1361.—Apron Holders.

Length of Holder, Inches.....		5	6	6 $\frac{1}{2}$	7
Fig. 1360.	{ Finished	40	....	....	....
	{ Nickel Plated.....	50	....	....	....
" 1361.	{ Finished	60	65	70	75
	{ Nickel Plated.....	70	80	85	90

Basin Fittings.

Tumbler Holders.

SINGLE.—Fig. 1362.



DOUBLE.—Fig. 1363.



Tooth Brush Cup.
Fig. 1364.



			Finished	N. Plated
Fig. 1362.	Single Tumbler Holder.....	Price each	1.50	1.75
" 1363.	Double " "	"	2.50	3.00
" 1364.	Tooth Brush Cup.....	"	....	2.25

Plumbers Round Head Brass Screws.

LIGHT PATTERN.—Fig. 1365.



HEAVY PATTERN.—Fig. 1366.



		Brass				Nickel Plated			
Number of Screw		10	12	14	16	10	12	14	16
Fig. 1365.	1 in. Long....Per Doz.	25	31	..	..	37	43	..	..
"	1 1/4 " " " " "	28	37	46	..	39	48	57	..
"	1 3/4 " " " " "	33	42	53	64	45	54	64	75
"	1 3/4 " " " " "	..	48	60	73	..	60	71	84
"	2 " " " " "	..	54	67	82	..	67	80	95
"	2 1/4 " " " " "	..	60	75	90	..	73	87	1.03
"	2 1/2 " " " " "	..	80	81	1.00	..	94	95	1.13
Fig. 1366.	1 1/2 " " " " "	..	..	..	1.75	..	..	..	2.00
"	2 " " " " "	..	..	..	2.25	..	..	..	2.50
"	2 1/2 " " " " "	..	..	..	2.75	..	..	..	3.00

Roll-Rim Cast Iron Lavatories.

Fig. 1367½.

ROLL-RIM LAVATORY,
WITH BACK
AND
PATENT OVERFLOW.



Length of Back,
13 inches.
Diam. of Bowl,
12 inches.

Price, Enameled\$4.60.

Fig. 1368½.

ROLL-RIM LAVATORY,
FOR CORNER.
WITH
PATENT OVERFLOW.



Length of Sides,
12½ inches.
Diam. of Bowl,
12 inches.

Price, Enameled ,\$4.60.

These basins are cast all in one piece.

Roll-Rim Cast Iron Lavatories.

Fig. 1369½.

ROLL-RIM LAVA-
TORY WITH OVAL
BOWL WITH BACK
AND PATENT
OVERFLOW.



Length of Back,
19 inches.

Bowl, 11 x 14
inches.

WITH OVAL BOWL.

Price (including Bronzed Iron Brackets), Enameled.. \$10.60.

Fig. 1370½.

ROLL-RIM
LAVATORY
FOR CORNER.
WITH
OVAL BOWL
AND PATENT
OVERFLOW.



Length
of Sides,
15 inches.
Bowl, 11 x 14
inches.

WITH OVAL BOWL.

Price, Enameled..... \$10.00.

These Basins are cast all in one piece, have large Improved Patent Overflow, Soap Trays and Ornamental Exterior.

Cast Iron Lavatories.

On Standard, With Patent Overflow and Rubber Plug.

HALF CIRCLE.—Fig. 1367.



CORNER.—Fig. 1368.



Description.....	Plain.	Painted.	Galvanized.	Enameled Slab and Bowl with Bronzed Standard.
Fig. 1367, Half Circle Stand, No. 451...each	6.00	7.25	9.75	11.25
" 1368, Corner Stand, No. 452 "	6.00	7.25	9.75	11.25

Half Circle and Corner Slabs and Bowls.

Patent Overflow, Nickel Plated Plug, Rubber Stopper and Brass Coupling.

HALF CIRCLE.—Fig. 1369.



CORNER.—Fig. 1370.



SMALL HALF CIRCLE.
Fig. 1371.



	Plain.	Painted.	Galvanized.	Enameled.
Fig. 1369, Half Circle.....Price each	3.50	4.00	5.50	8.00
" 1370, Corner "	3.50	4.00	5.50	8.00
" 1371, Half Circle Small "	3.00	3.25	4.50	5.25

Bath Fittings

—FOR—

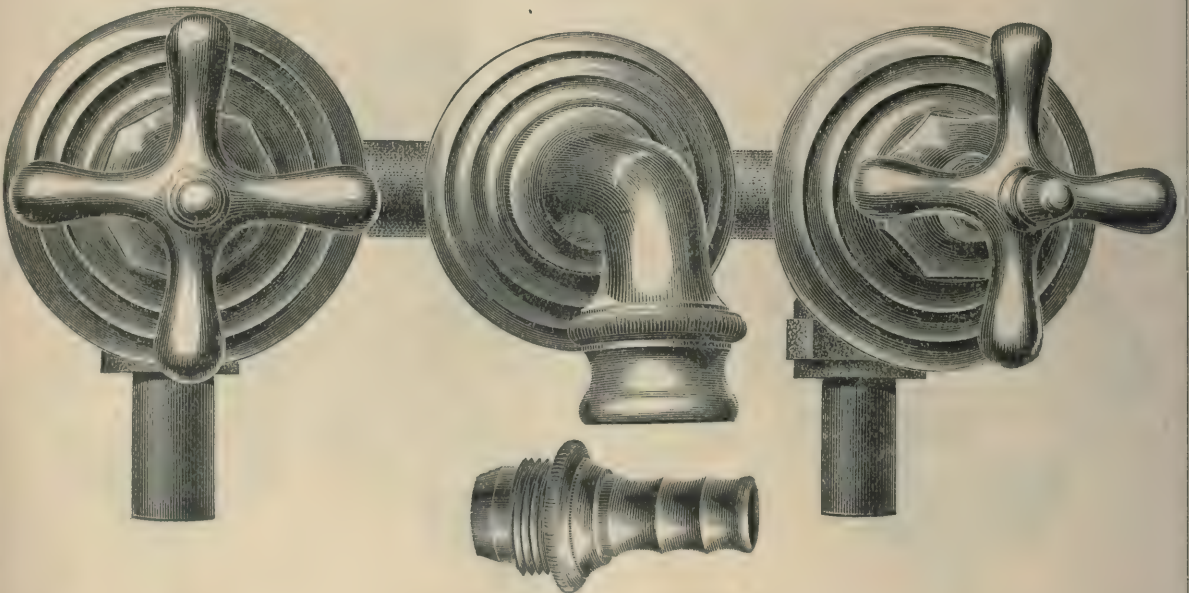
Porcelain, Porcelain Lined, Steel Clad Baths and Baths of Every Description

Consisting of

Compression and Improved Double Bath Cocks, Wastes, Supply,
Combination Waste and Supply, and a Complete Line of
Needle Spray, Douche, Ring and Overhead Showers, and Apparatus
of Every Description used in the Fitting up of
Modern Bath Rooms

Compression Double Bath Cocks.

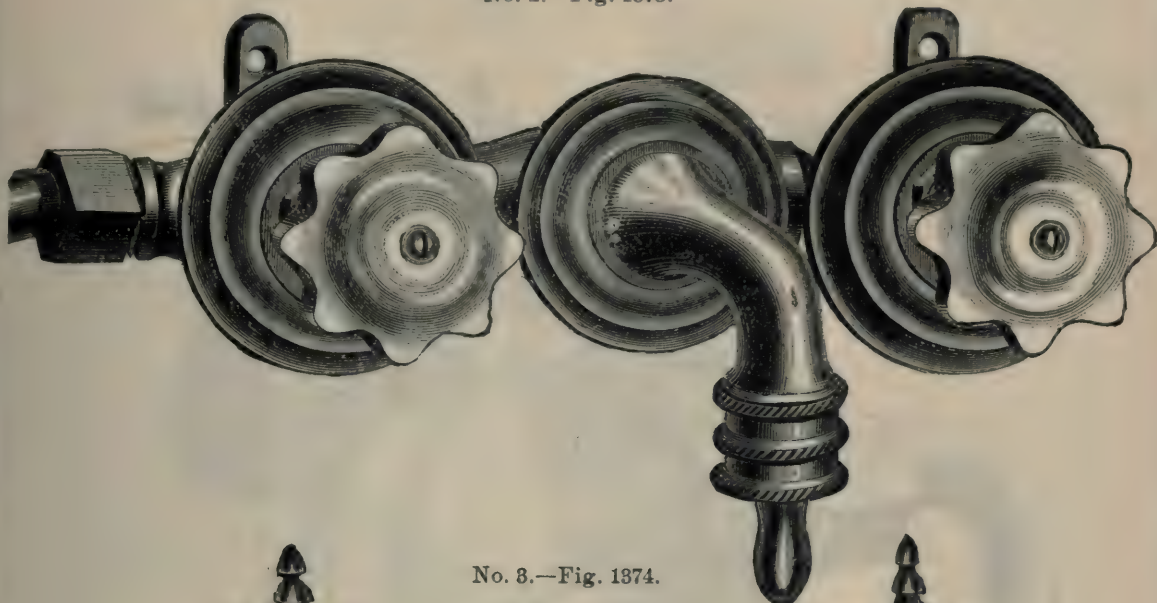
No. 1.—Fig. 1372.



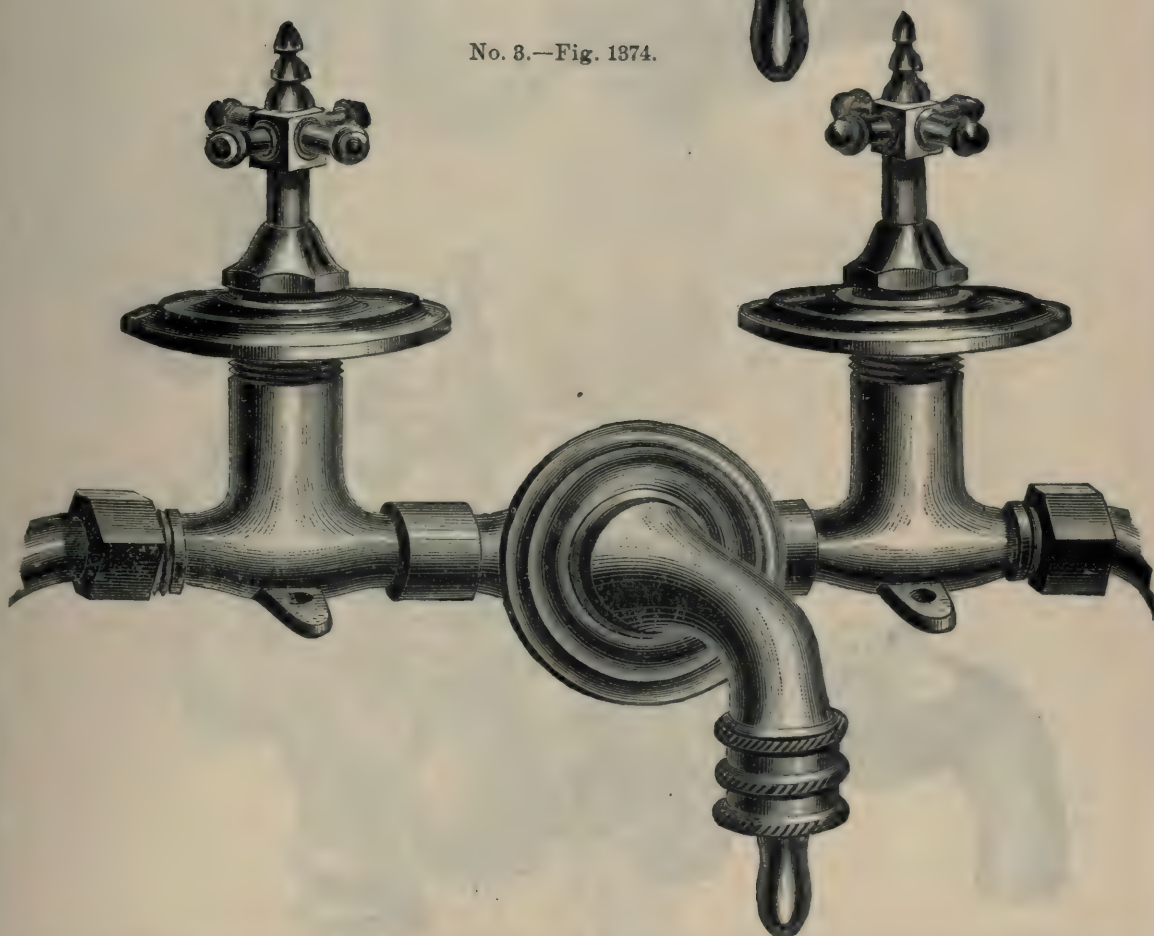
Polished Brass.....	Price each	5.00
Nickel Plated.....	"	5.50

Compression Double Bath Cock.

No. 2.—Fig. 1873.



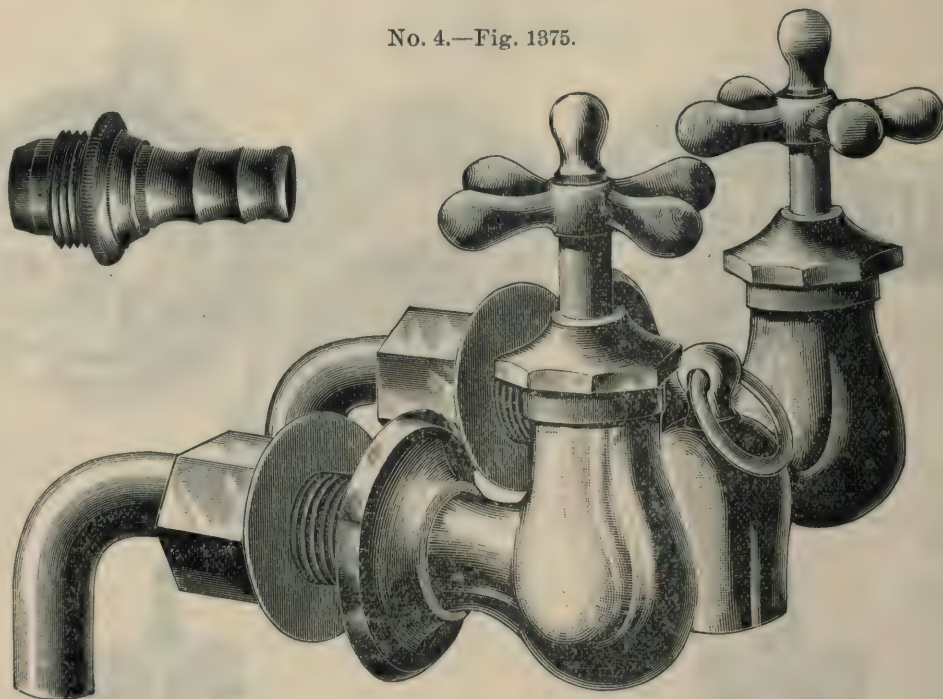
No. 8.—Fig. 1374.



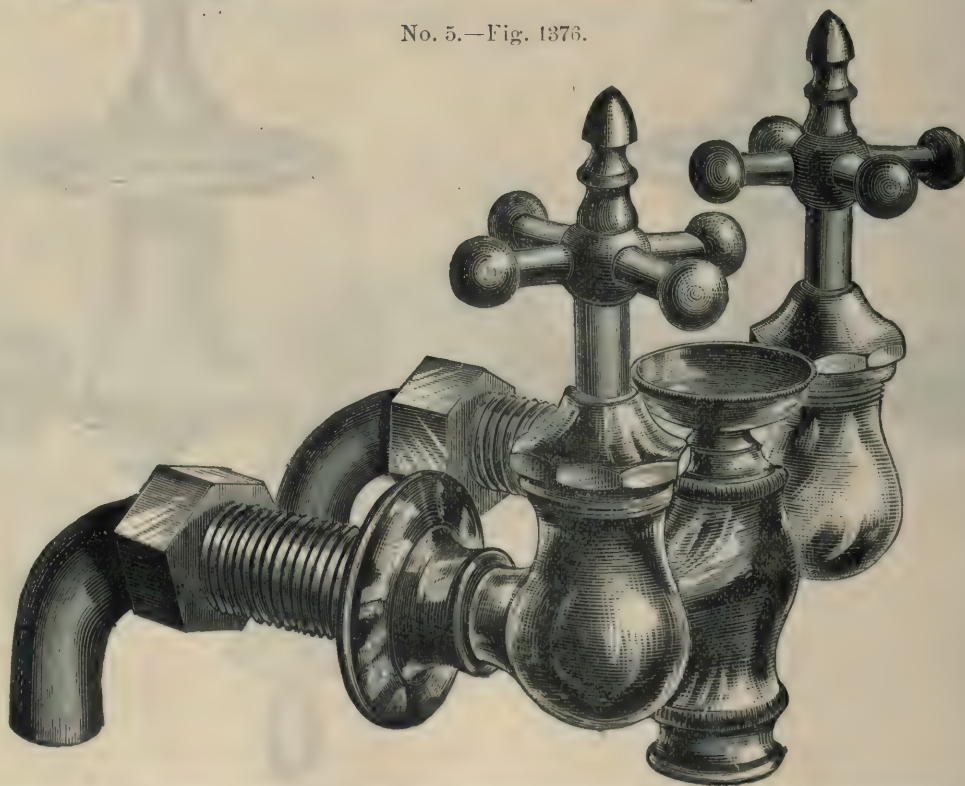
			Polished	N. Plated
Fig. 1373.	No. 2.	Without Tube or Sprinkler.....	7.00	7.50
" 1374.	" 3.	" " "	7.00	7.50

Compression Double Bath Cocks.

No. 4.—Fig. 1375.



No. 5.—Fig. 1376.



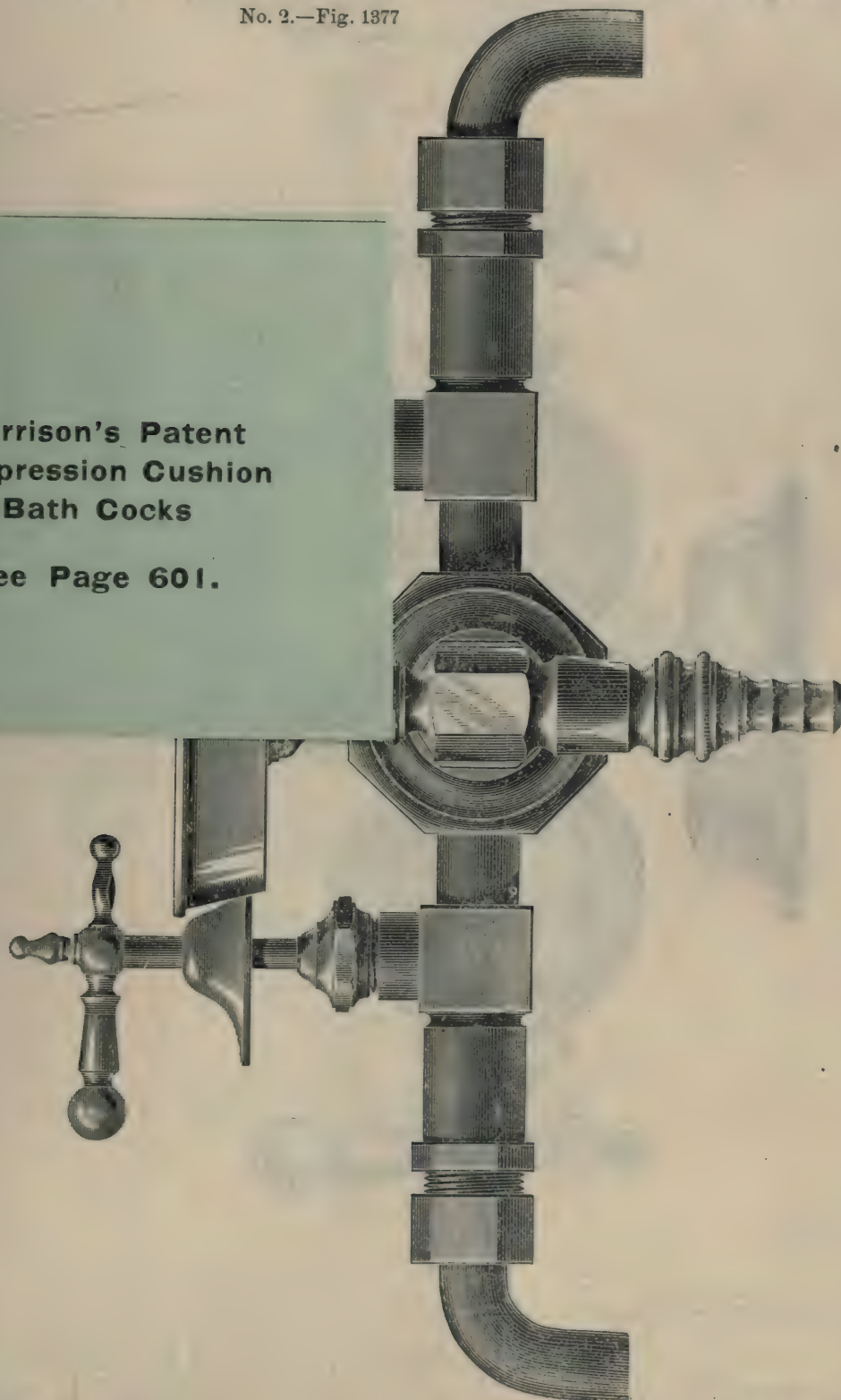
					Polished.	N. Plated.
Fig. 1375.	No. 4,	$\frac{1}{2}$ inch	Connections.....	Price each	6.00	6.50
" 1376.	" 5,	$\frac{1}{2}$ inch	" " " " " " " " " " " "	"	7.50	8.00

Improved Fuller's Double Bath Cock.

No. 2.—Fig. 1377

**Morrison's Patent
Compression Cushion
Bath Cocks**

See Page 601.



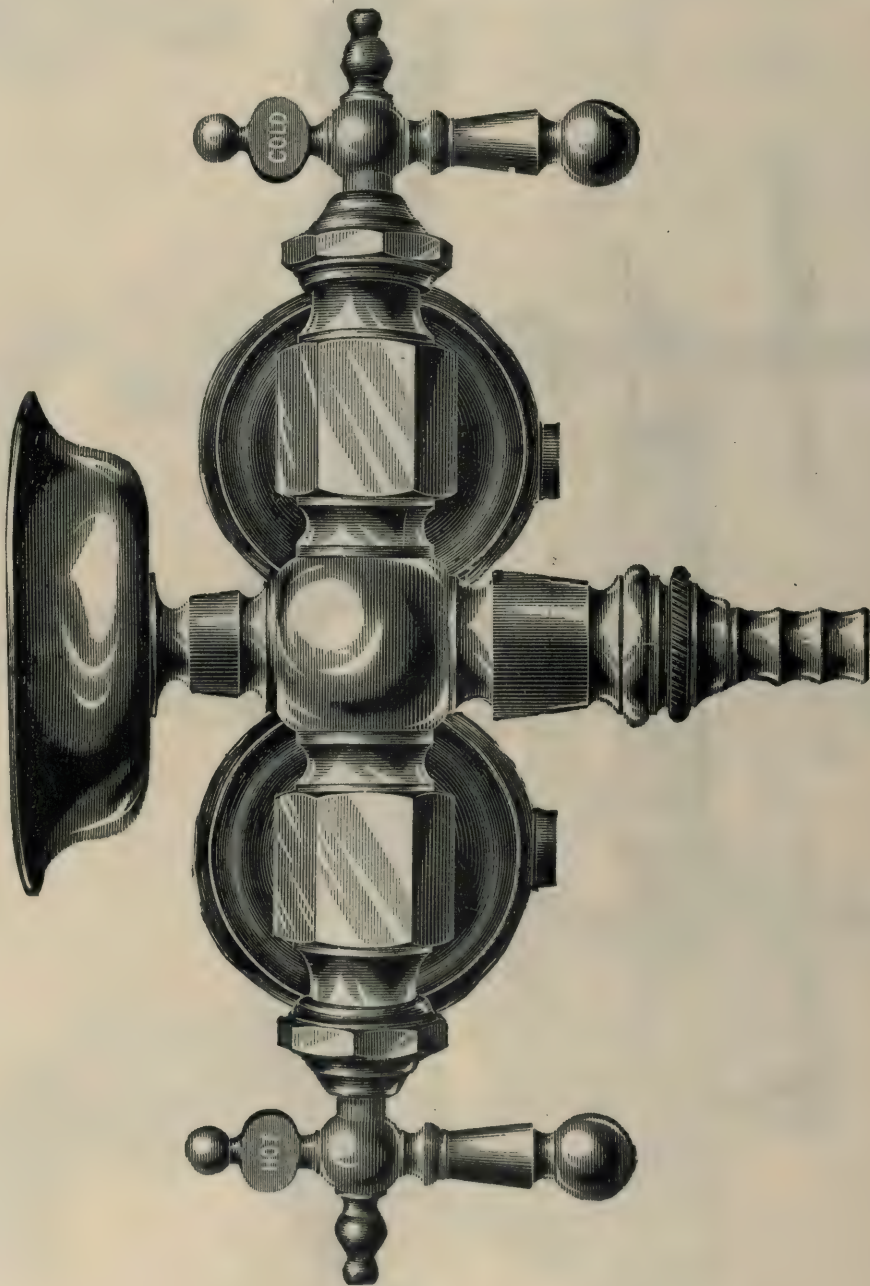
Polished Brass.....	Price each, \$14.00
Nickel Plated.....	" " 16.00

Improved Fuller's Double Bath Cock.

With Round Soap Cup.

WITH BRASS HANDLES.

No. 4.—Fig. 1878.

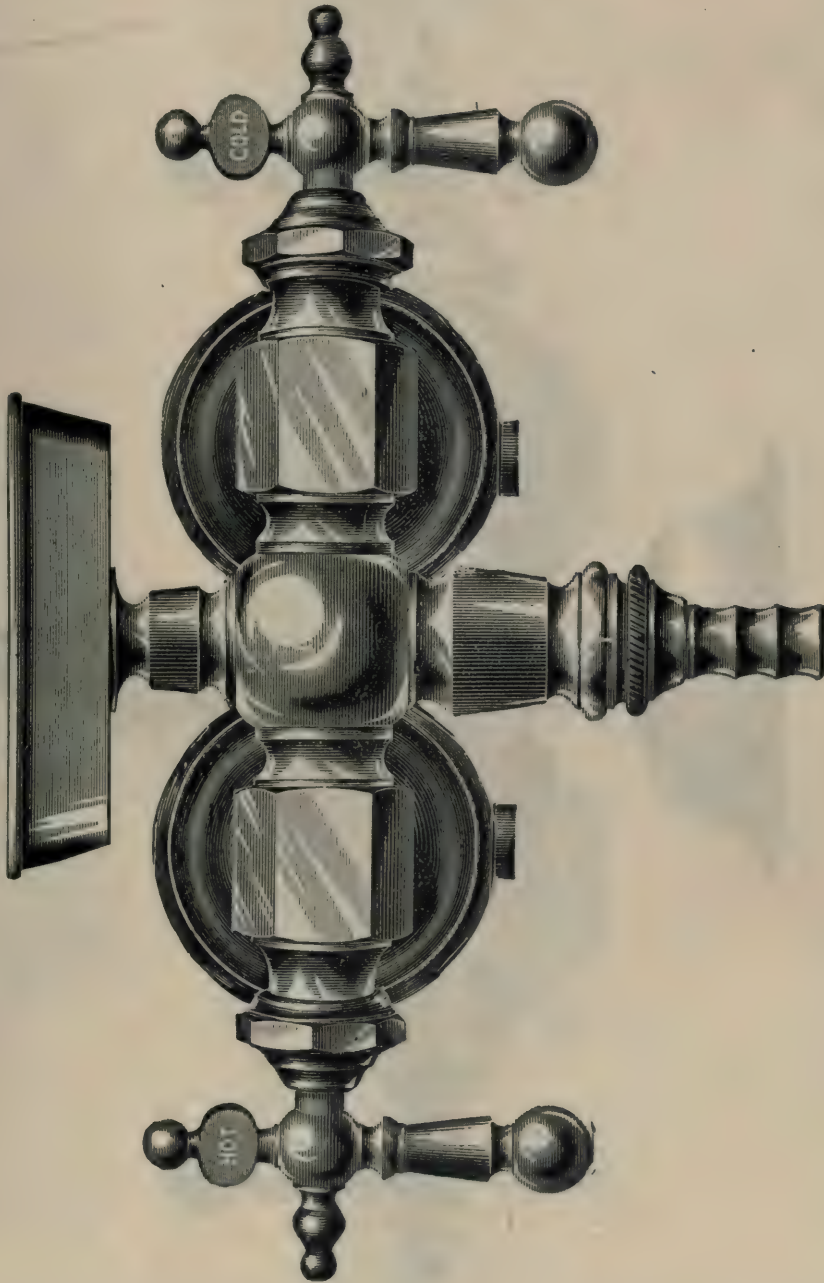


	Polished Brass	Nickel Plated
With Brass Handles.....Price each	13.00	14.00
With Ebony or Ivory Handles.....“	15.00	16.00

Improved Fuller's Double Bath Cock.

With Square Soap Cup and Loose Tray.

No. 4a.—Fig. 1379.

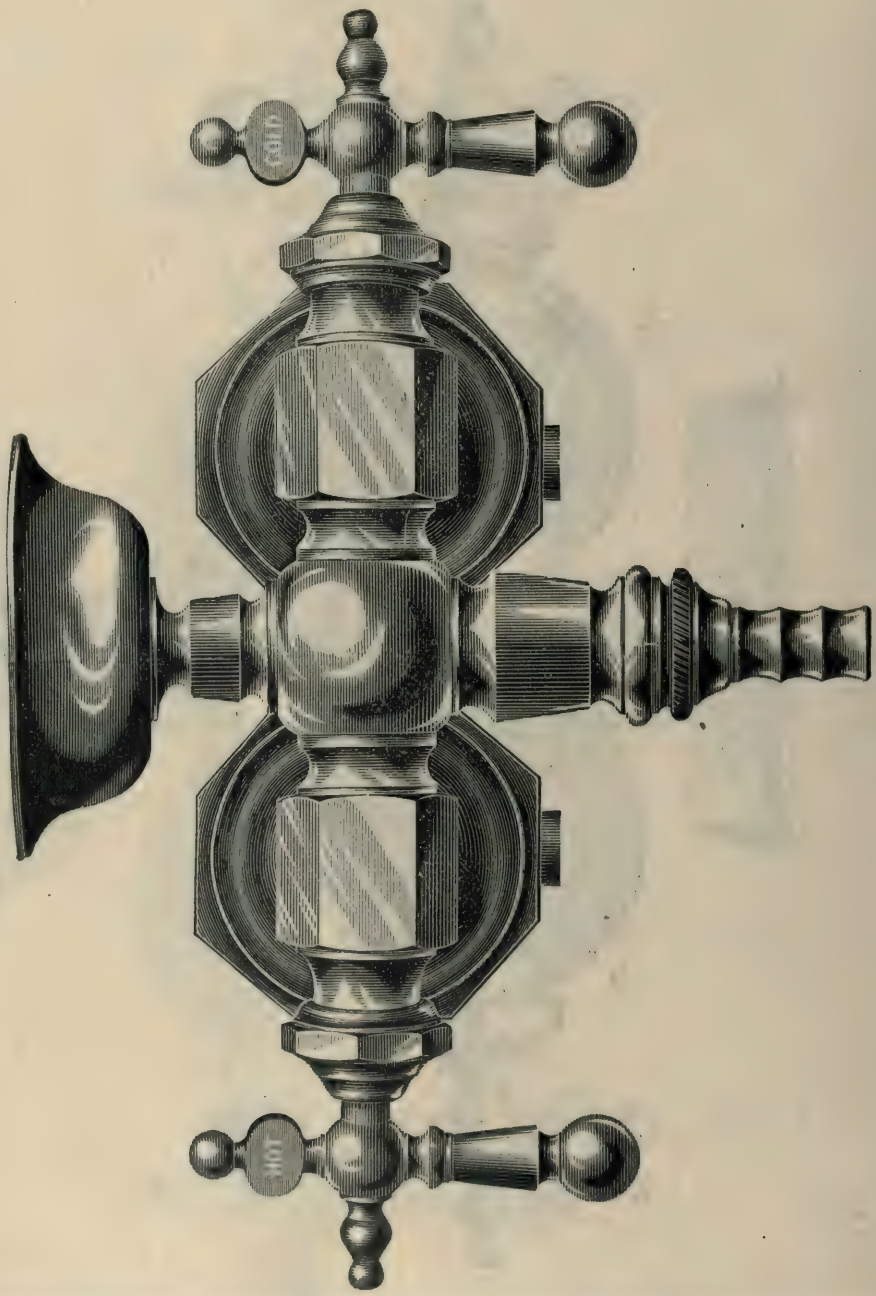


	Polished Brass.	Nickel Plated.
With Brass Handles.....Price each	15.00	16.50
With Ebony or Ivory Handles “	17.00	18.50

Improved Fuller's Double Bath Cock.

With Jewel Holder.

No. 4½.—Fig. 1380.

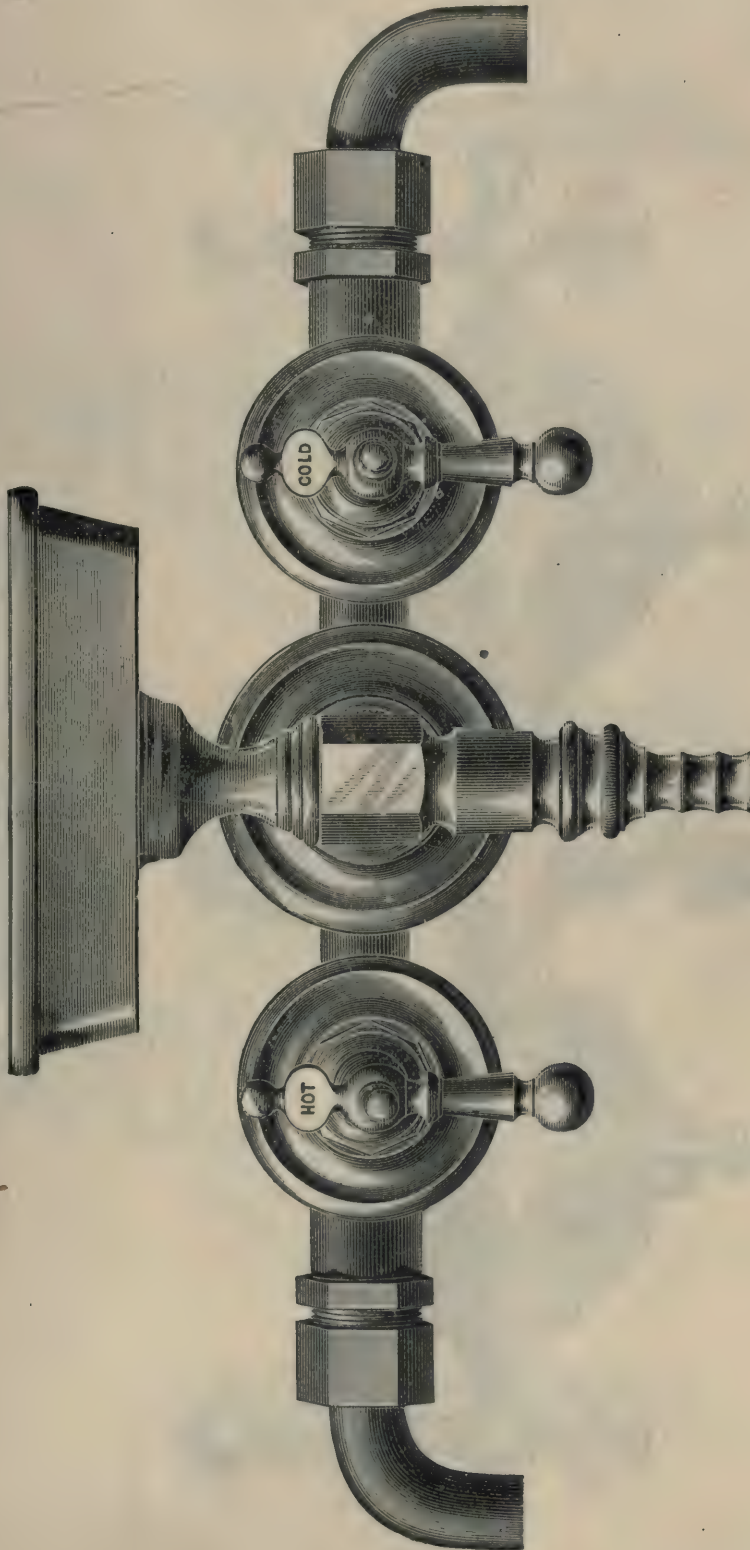


	Polished Brass	Nickel Plated
With Brass Handles .....Price each	11.00	12.00
With Ebony or Ivory Handles..... “	13.00	14.00

Improved Fullers Double Bath Cock.

With Square Soap Tray.

No. 5.—Fig. 1381

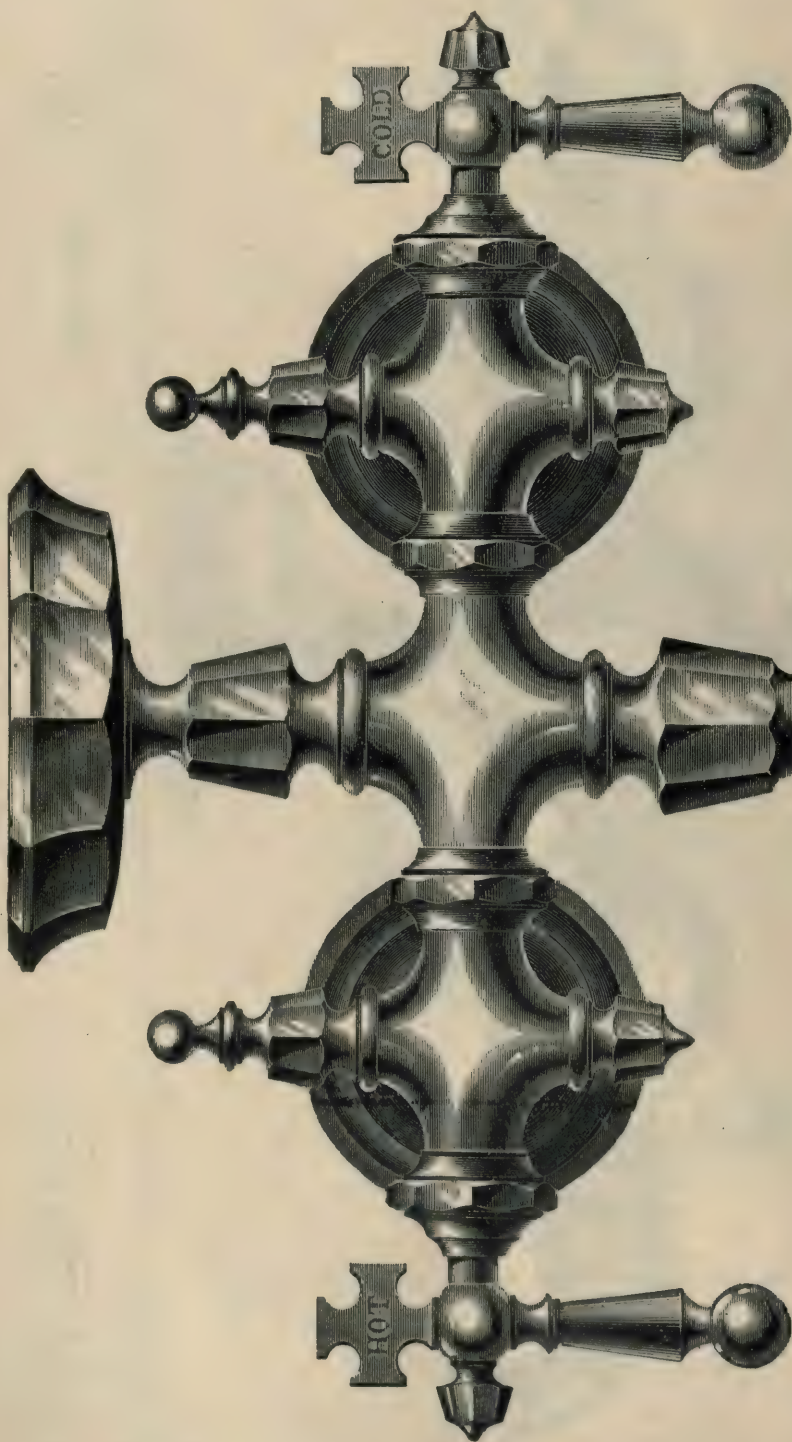


	Polished Brass	N. Plated
With Brass Handles	14.00	15.50
With Ebony or Ivory Handles	16.00	17.50

Price each
" "

Improved Fuller's Double Bath Cock.

No. 6.—Fig. 1382.



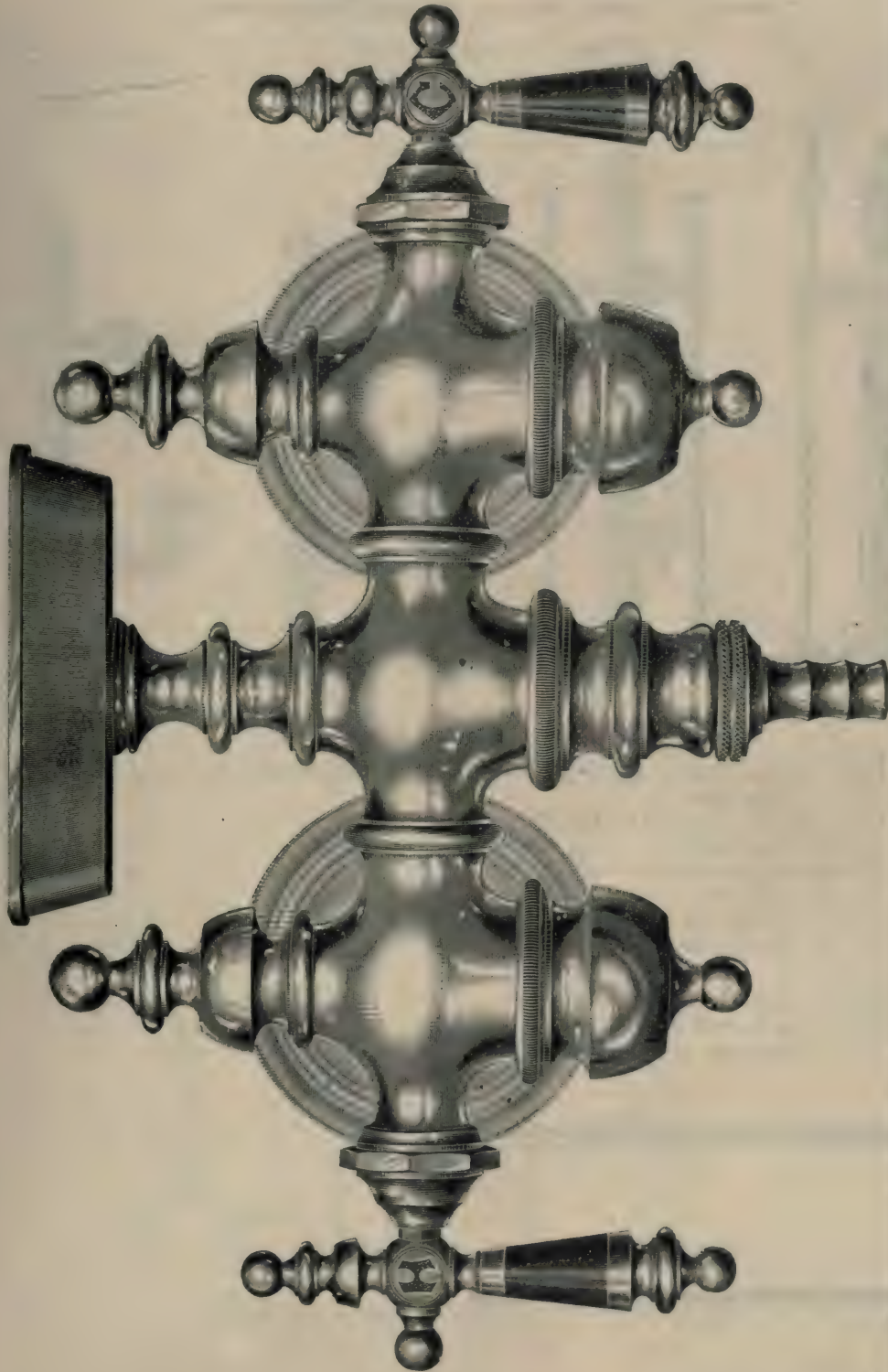
	Polished Brass.	Nickel Plated.
With Brass Handles.....	15.00	17.00
With Ebony or Ivory Handles.....	17.00	19.00

Price each
“

NOTE.—No. 6 Double Bath Cock can be extended to 10 inches between Centres of Inlets when required, at an extra charge.

Improved Fuller's Double Bath Cock.

No. 7.—Fig. 1883.



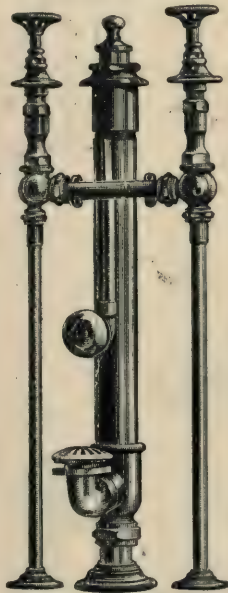
	Polished Brass	N. Plated
With Brass Handles.....	25.00	27.00
With Ebony or Ivory Handles.....	27.00	29.00

Price each
" "

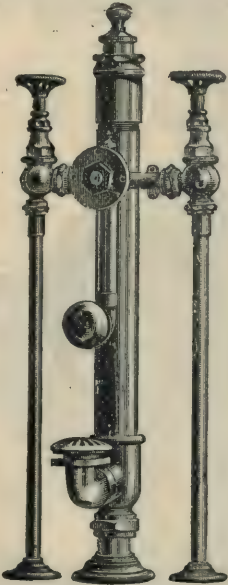
Bath Fittings for Porcelain and Porcelain Lined Baths.

“Unique” Bath Supply, Waste and Overflow.

BATH SUPPLY, WASTE AND OVERFLOW FOR FLAT RIM BATHS.
Fig. 1384.



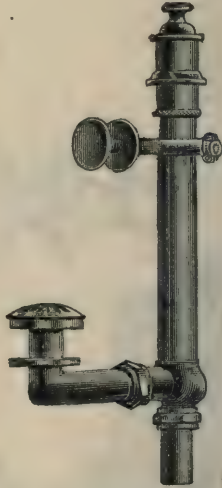
BATH SUPPLY, WASTE AND OVERFLOW FOR ROLL RIM BATH.
Fig. 1385.



WASTE AND OVERFLOW ONLY FOR FLAT RIM BATHS.
Fig. 1386.



WASTE AND OVERFLOW ONLY FOR ROLL RIM BATHS.
Fig. 1387.

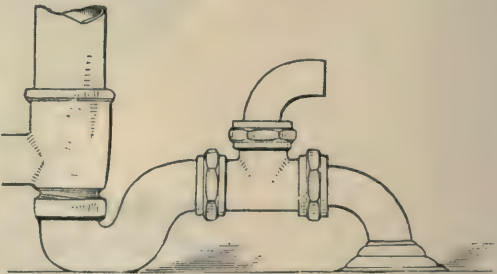


				Polished Brass.	Nickel Plated.
Fig. 1384	{ Bath. Supply, Waste and Overflow }	No. 1, 2" Tube..	Price each	21.00	22.50
	{ For Flat Rim Bath }	" 2, 2 1/2" "	"	33.50	35.00
" 1385	{ Bath Supply, Waste and Overflow }	" 1, 2" "	"	21.00	22.50
	{ For Roll Rim Baths }	" 2, 2 1/2" "	"	33.50	35.00
" 1386	{ Waste and Overflow only }	No. 1, 2" Tube	"	12.00	13.00
	{ For Flat Rim Baths }	" 2, 2 1/2" "	"	20.00	21.00
" 1387	{ Waste and Overflow only }	" 1, 2" "	"	12.50	13.75
	{ For Roll Rim Bath }	" 2, 2 1/2" "	"	20.50	21.75

BRASS SUPPLY PIPES FOR DOUBLE BATH COCKS
PORCELAIN OR COPPER LINED BATHS.
Fig. 1388.



BATH TRAPS FOR UNIQUE
WASTES.
Fig. 1389.

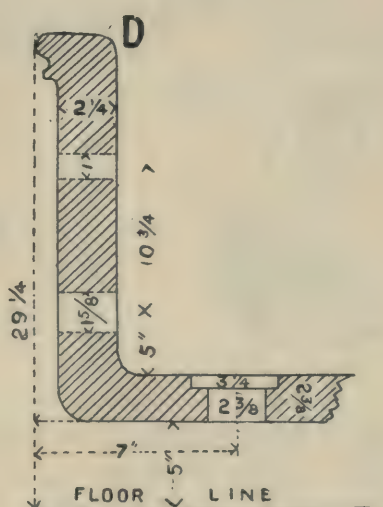
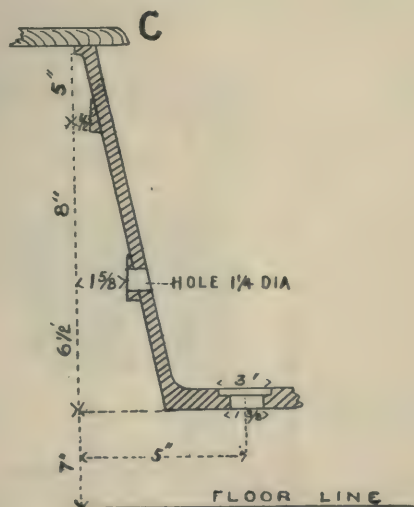
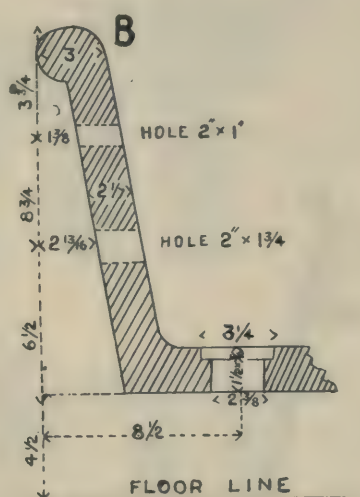
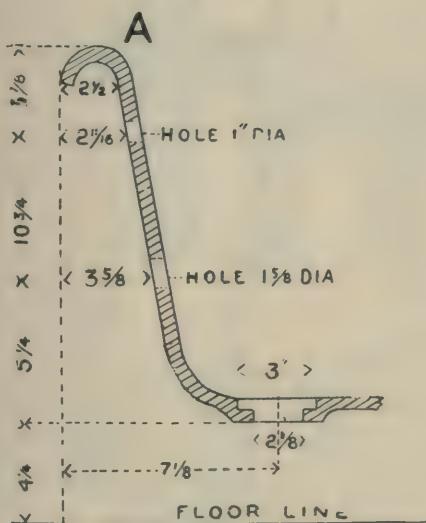


		Polished Brass.	Nickel Plated.
Fig. 1388.	Brass Supply Pipes.....	2.25	3.25
" 1389.	Bath Trap for Unique Waste.....	5.00	5.75

Sections of Baths.

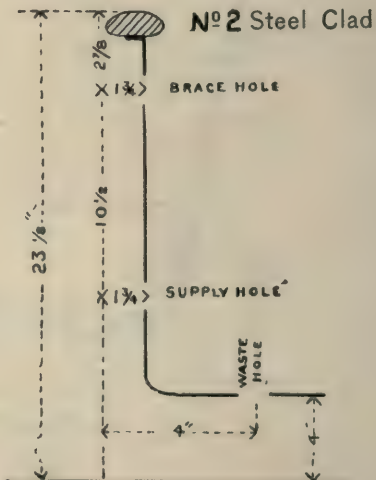
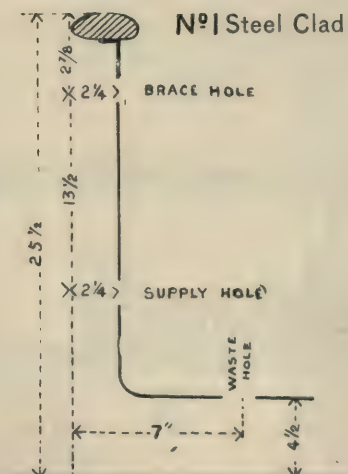
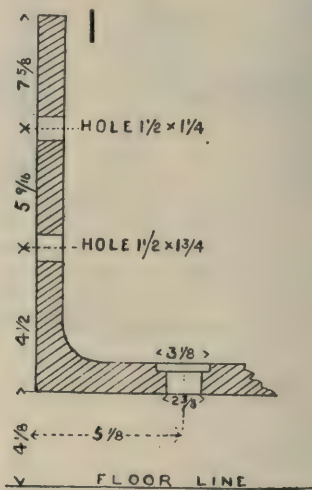
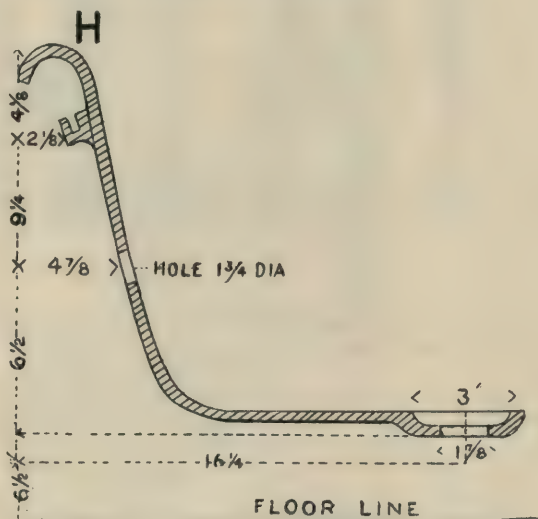
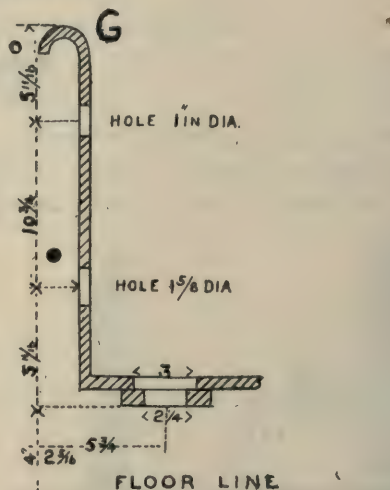
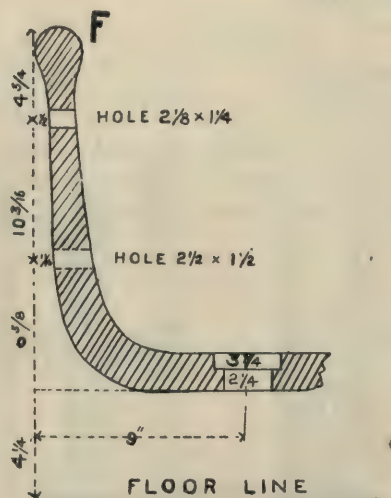
With Measurements.

We Illustrate below a few Sections of Baths, showing measurements required in ordering Bath Waste and Supply Fittings. In ordering Fittings give the letter of Section of measurements required, or if any difference in any of the measurements such difference should be stated.



Sections of Baths.

With Measurements.

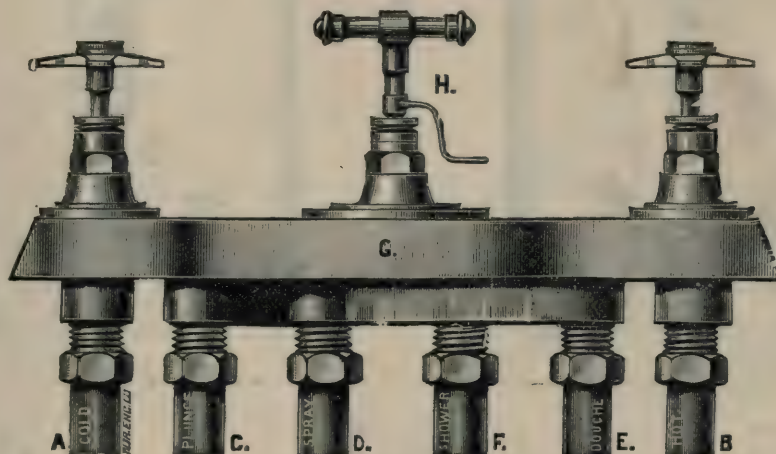


Bath Fittings.

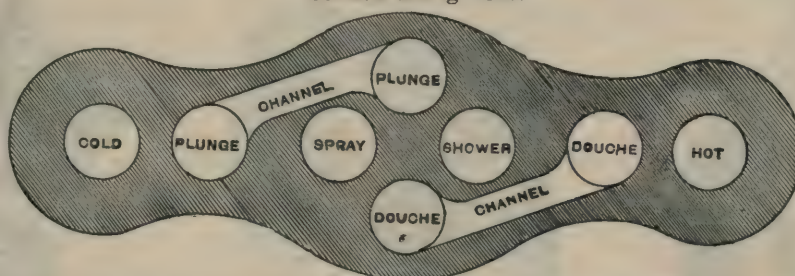
Bath Plate or Mixing Chamber.

FOR NEEDLE, SHOWER, DOUCHE, SPRAY AND PLUNGE BATHS.

Fig. 1390.



Section of Fig. 1390.



	Polished	N. Plated
For Needle Shower, Douche and Plunge Bath, No. 40.....	20.50	21.50
" " " " Spray and Plunge Bath, No. 142 " "	24.00	25.00

Bath Feet.

Fig. 1391

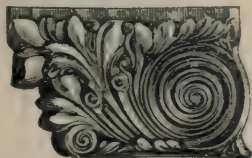
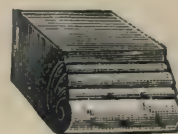


Fig. 1392



Fig. 1393



	Cast Iron	Brass	
		Polished	N. Plated
Fig. 1391. Foot for Porcelain Baths, 4 in Sett, Price per Sett	6.00	18.00	21.00
" 1392. " " Iron " " " "	2.75	12.00	13.60
" 1393. Marble Foot for Porcelain Baths, 4 in Sett.....	Price per Sett 5.50		

Fittings for Steel Clad Baths.

Fig. 1394.



Plate "R."

Fig. 1395.

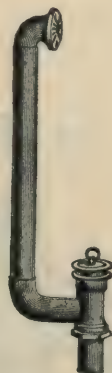


Plate "S."

Fig. 1396.



Plate "T."

Fig. 1397.



Plate "U."

Fig. 1398.

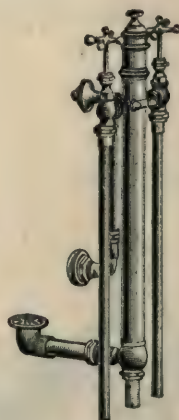


Plate "V."

Fig. 1399.



Plate "W."

Fig. 1400.

FOR NO. 1 BATH.

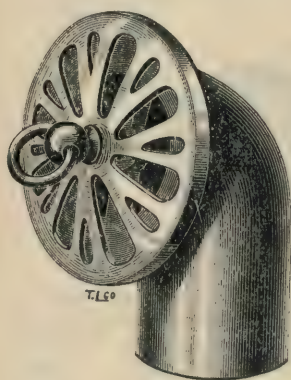


Fig. 1401.

FOR NO. 2 BATH.

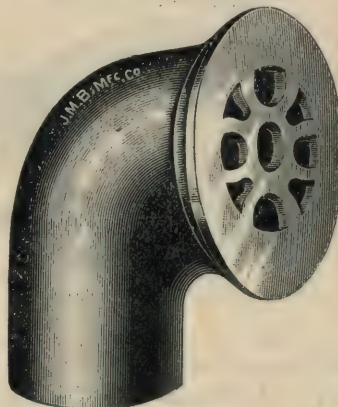
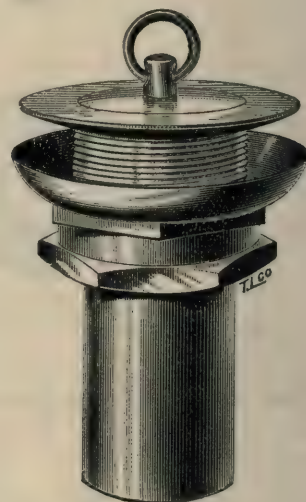


Fig. 1402.



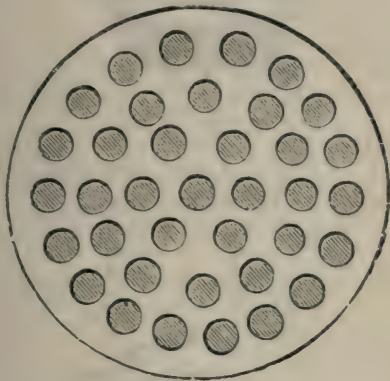
	Polished Brass.	Nickel Plated.
Fig. 1394. Combined Overflow and Waste for No. 1 Bath	Price each	5.00
" 1395. " " " " No. 2 "	2.50	3.25
" 1396. Overflow Pipe only to reach Floor, without Bend	"	1.25
" " " " " " with Bend	"	1.75
" 1397. Supply Pipes for Fuller or Compression Cocks	Per set of two	3.25
" 1398. Unique Overflow, Waste and Supply, Tops only N. P., Price each	"	22.00
" " " " " " N. P. All Over	"	24.00
" 1399. Unique Waste and Overflow only, Top only N. P.	"	10.00
" " " " " " N. P. All Over	"	12.00
" 1400. Overflow Bend for No. 1 Bath, N. P. All Over	"	75
" 1401. " " " " No. 2 " Rough, Plated Strainer only "	"	45
" 1402. Waste with Rubber Plug, No. 1 Bath, N. P. All Over	"	1.30
" " " " " " No. 2 " Rough, Plated Top only "	"	1.00

Bath Fittings for Copper Lined Baths.

Overflow Strainers.

STRAINER WITH HOLES.

Fig. 1403



STRAINER, FANCY.

Fig. 1404



	Finished	N. Plated
Fig. 1403. Strainer, with Holes, $2\frac{1}{2}$ in. Diam.....	2.90	3.40
" 1404. Strainer, Fancy, $2\frac{1}{2}$ in. Diam.....	2 90	3.40

Bath Wastes and Washers.

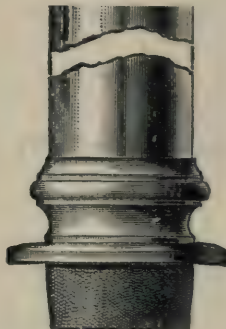
REGULAR PATTERN.

Fig. 1405



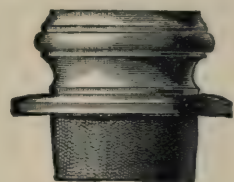
FOR BRASS TUBE.

Fig. 1406



FOR IRON PIPE.

Fig. 1407



Size.....	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	4
Fig. 1405. Finished.....	8.00	9.00	12.00	15.00	24.00	30.00	60.00
" " N. Plated.....	10.00	11.00	14.00	18.00	27.00	34.00	65.00
" 1406. Finished.....	10.00	11.00	14.00	18.00	.....	.....	.....
" " N. Plated.....	12.00	13.00	16.00	21.00	.....	.....	.....
" 1407. Finished.....	.....	9.00	12.00	15.00	.....	.....	.....
" " N. Plated.....	.....	11.00	14.00	18.00	.....	.....	.....

Bath Fittings for Copper Lined Baths.

Bath Plugs.

WITH BRASS STOPPER.
Fig. 1408

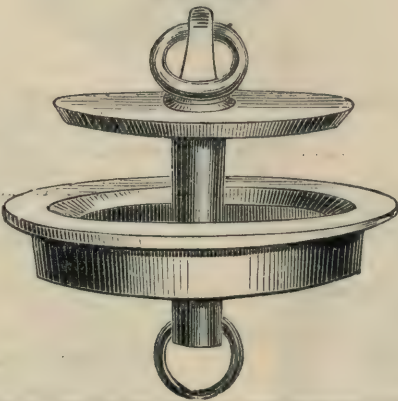


WITH RUBBER STOPPER.
Fig. 1409



Size, Inches.....		1 1/4	1 1/2	2	2 1/2	3
Fig. 1408, With Brass Stopper	Finished, Price per dozen	3.00	4.00	7.00	15.00	18.00
	N. Plated, " " "	3.50	4.50	8.00	17.00	21.00
Fig. 1409, With Rubber Stopper	Finished, Price per dozen	3.50	4.75	8.00	.....	.....
	N. Plated, " " "	4.00	5.25	9.00	.....	.....

BATH VALVE.
Fig. 1410



SAFE WASTE VALVE.
Fig. 1411

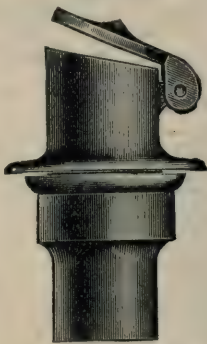


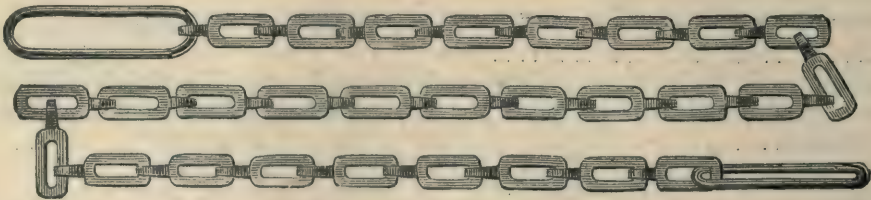
Fig. 1410.—Bath Valve.

Size, Inches.....	1	1 1/4	1 1/2	2
Price each.....	50	58	75	1.00

Fig. 1411.—Safe Waste Valve.

Size, Inches.....		1	1 ¹ / ₄
For Lead Pipe.....	Price per dozen	18.00	24.00
With Flange and Thimble.....	“ “ “	22.50	28.50
For Iron Pipe.....	“ “ “	21.00	27.00

Fig. 1412.—Bath Chains.

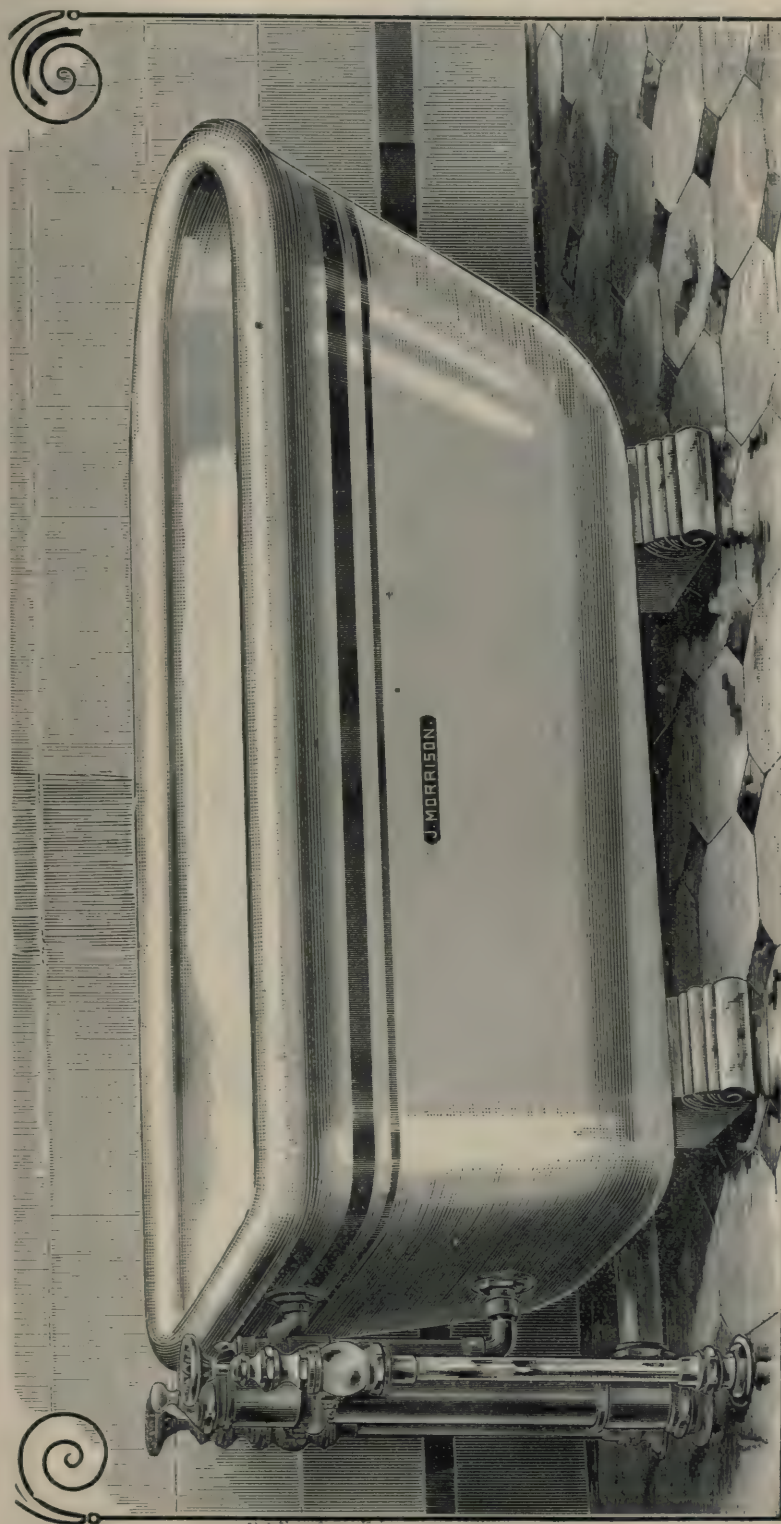


Number of Chain.....	Length	No. 0	No. 1	No. 2
Brass Lacquered.....	2' 2"	2.50	2.75	3.25
Nickel Plated.....	2' 2"	2.80	3.00	3.50

Imperial Porcelain Roll Rim French Bath.

With Unique Waste, Overflow, and Supply Pipes to Floor.

Fig. 1413.

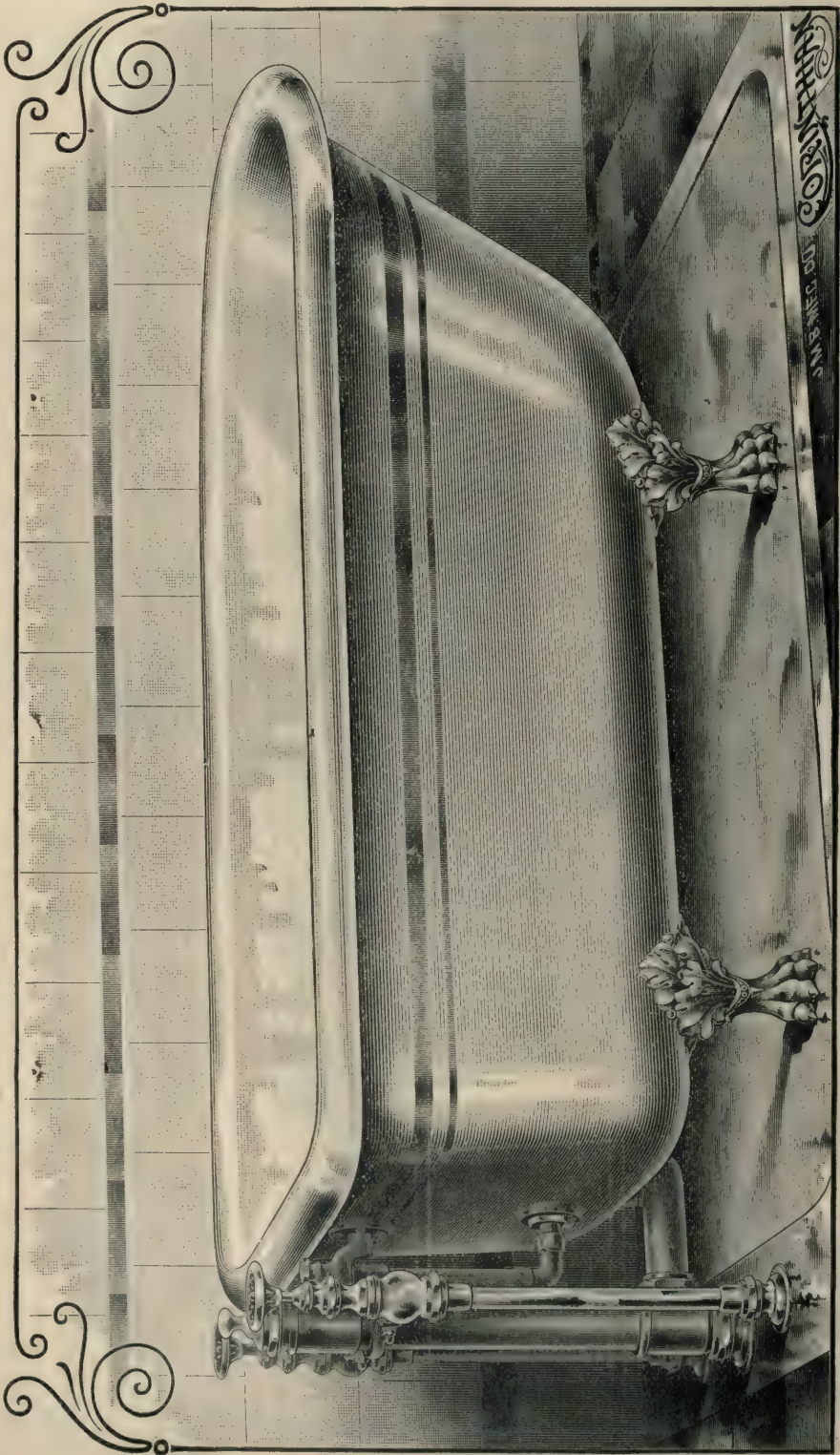


Length of Tub.....	5 ft. 0 in.	5 ft. 7 in.	6 ft. 0 in.
Imperial Porcelain Roll Rim French Bath with Nickel Plated Combination Overflow, Waste and Supply with Pipes to Floor and Marble Feet not decorated.....	145.00 113.50	150.00 118.50	170.00
Bath Tub only, without Fittings or Feet or Decoration.....	110.00 80.00	115.00 85.00	135.00

The “Corinthian” Porcelain Lined Roll Rim Bath.

With Unique Waste, Overflow, and Supply Pipes to Floor.

Fig. 1414.



	4' 6"	5'	5' 6"	6'
Length of Bath.....				
Bath with Unique Waste, Overflow, and supply, with Pipes to Floor, Painted one coat outside, Complete as shewn.....	108.75	116.25	123.75	131.50
Bath with Overflow, Plug and Coupling, Rubber Stopper and Chain.....	66.25	73.75	81.00	88.50

French Roll Rim Porcelain Lined Bath.

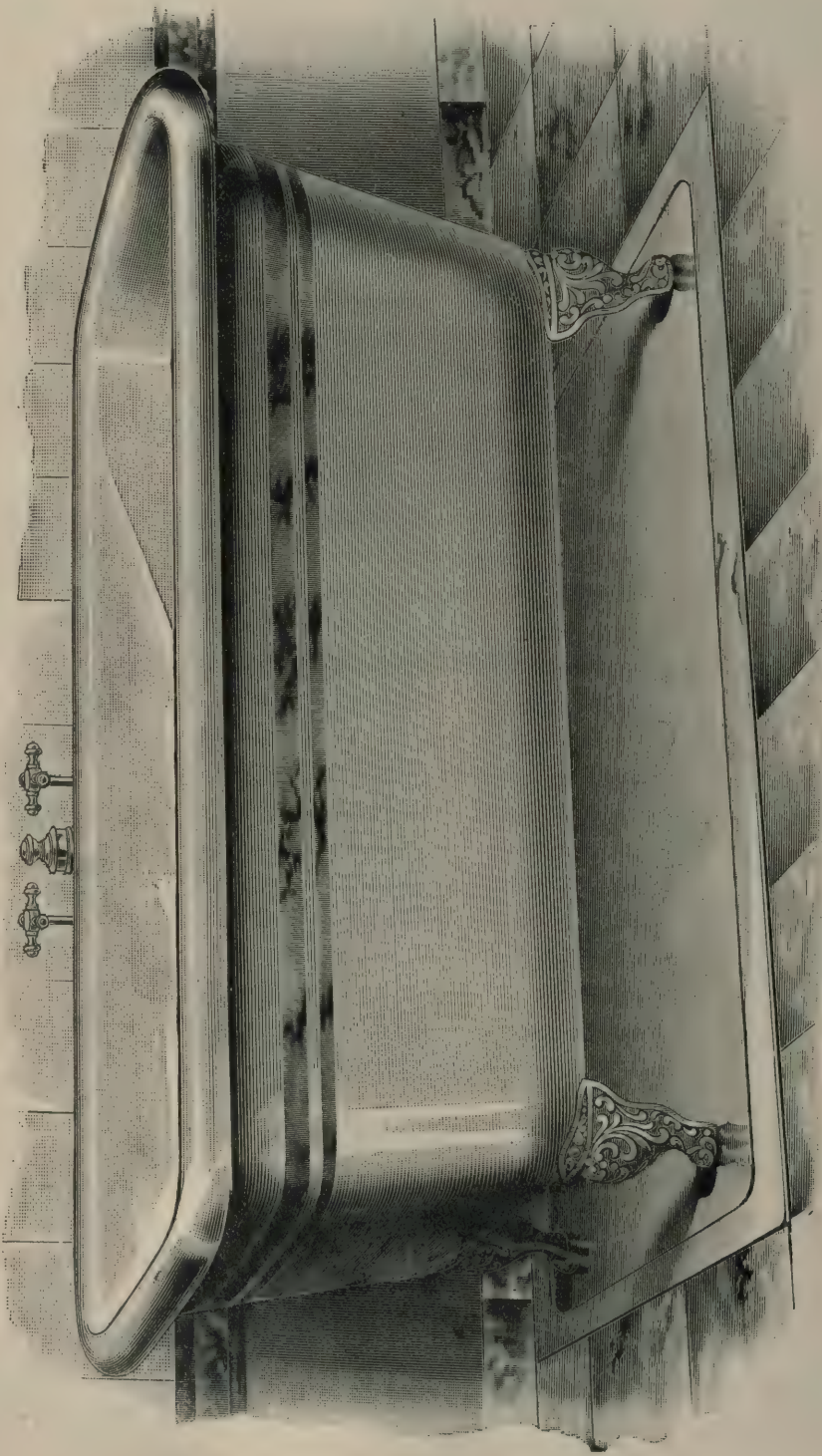
Fig. 1415.



Length of Bath, feet.....	4	4½	5	5½	6
Porcelain Lined, Roll Rim Bath, with Overflow Brass Waste N. Plated, with Rubber Stopper } each....	47.75	52.50	59.00	65.00	80.50

Roman Porcelain Lined Roll Rim Bath.

Fig. 1416.



Length of Bath, in feet.....	4	4½	5	5½
Length of Bath, over all.....	4 ft. 7 in.	5 ft. 0 in.	5 ft. 6 in.	6 ft. 0 in.
Porcelain Lined Roll Rim Roman Bath, with Unique Waste and Supply, all Exposed Parts Nickel Plated.....	83.25	87.50	93.25	100.25
Ditto, with Fittings Polished and Plated all over....	91.00	95.25	100.50	108.00

Roman Porcelain Lined Roll Rim Bath.

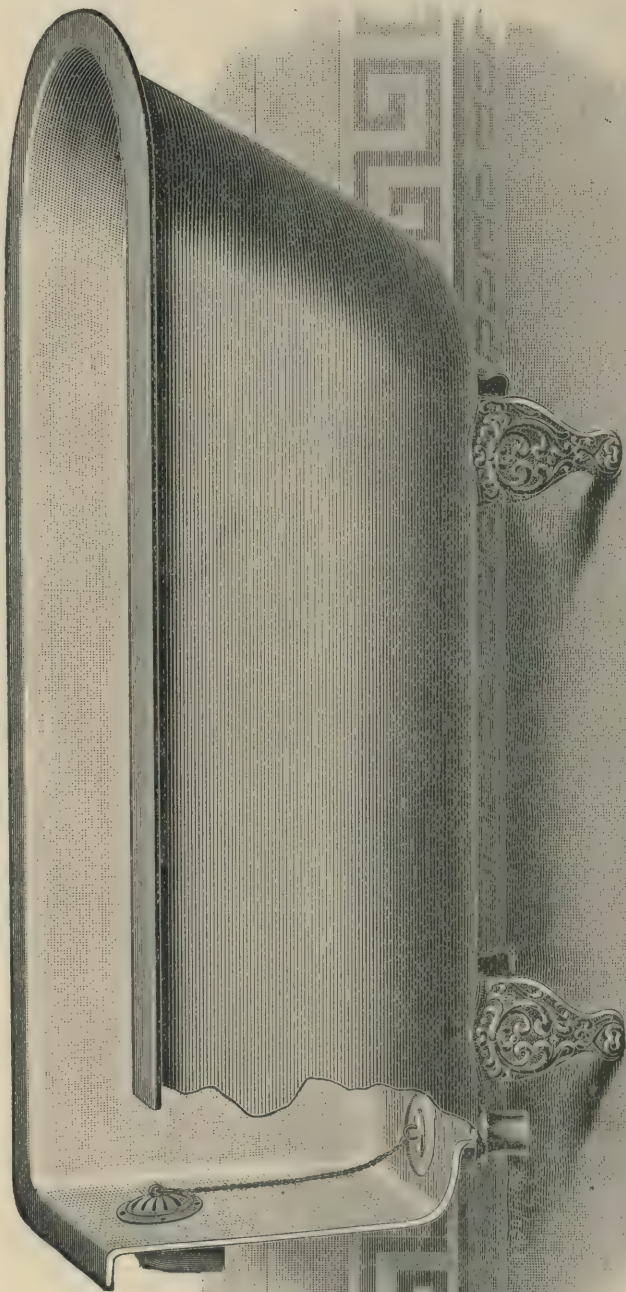
Fig. 1417.



Length of Bath, in feet.....	4	4½	5	5½
Length, over all	4 ft. 7 in.	5 ft.	5 ft. 6 in.	6 ft.
Porcelain Lined, Roll Rim Roman Bath, with Unique Waste	} Price each	93.25	98.75	105.75
and Supply, all Exposed Parts N. Plated		100.75	106.50	113.50
Ditto, Ditto, with Fittings Polished and Plated all over				

Cast Iron French Bath.

Fig. 1418.

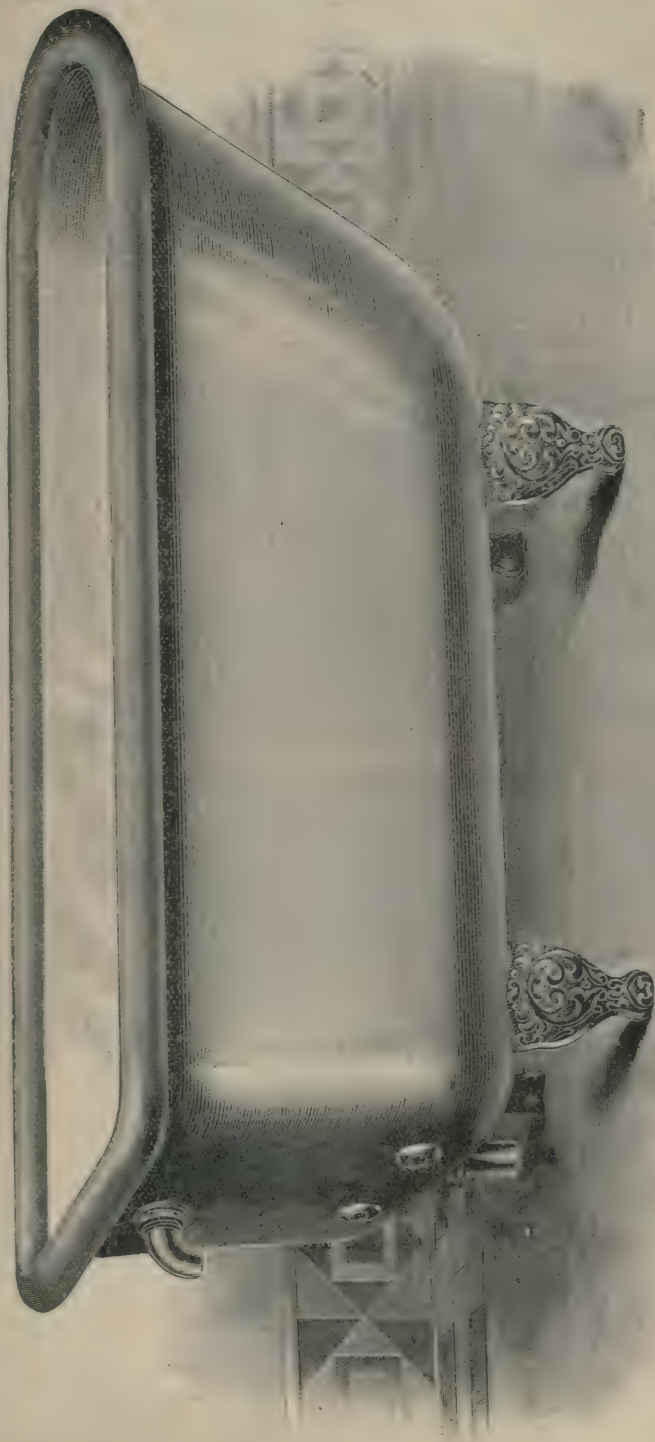


Length of Bath, in feet	4	4½	5	5½	6
Cast Iron French Bath, Painted.....	19.00	21.00	23.25	25.25	27.25
“ “ “ Enameled.....	35.75	40.00	44.00	48.50	52.50

Porcelain Lined French Bath.

For Prisons, Hospitals, or Asylums.

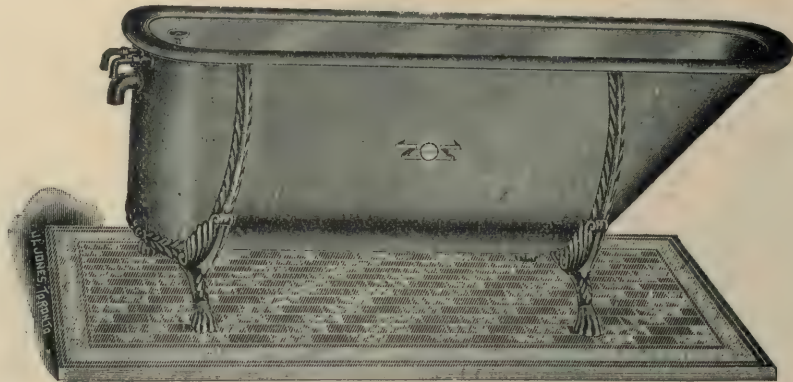
TAPPED FOR IRON PIPE SUPPLY.—Fig. 1419.



Length of Bath in feet.....	4	4½	5	5½	6
Porcelain Lined Bath with Wood Rim, Overflow and Plug, each	44.75	49.50	54.50	59.75	65.00
“ “ without Wood Rim.....	40.25	44.75	49.25	53.75	58.25

Steel Clad Baths.

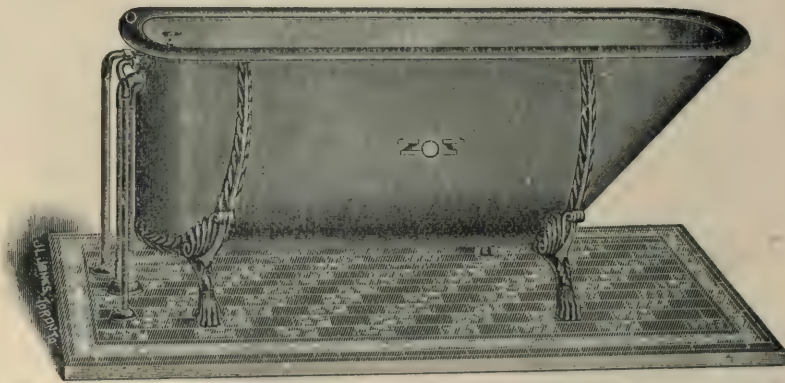
No. 1.—With Wood Rim, Plated Overflow and Plug.
Fig. 1420.



No. 1.—With Plated Overflow Pipe and Supply Pipes to Floor.
Fig. 1421.



No. 1.—With Combined Waste and Overflow and Supply Pipes to Floor.
Fig. 1422.



		12 oz.	14 oz.	16 oz.
Fig. 1420.	No. 1, Including Rim, { 5 ft. 6 in. each	28.75	30.95	33.13
	Plated Overflow and Plug { 5 ft. "	28.75	30.95	33.13
" 1421.	No. 1, With Rim, N. Plated Overflow, { 5 ft. 6 in. "	33.00	35.25	37.50
	Pipe to Floor, Supply Pipes & Plug { 5 ft.... "	33.00	35.25	37.50
" 1422.	No. 1, with Rim, Combined Waste & { 5 ft. 6 in. "	36.50	38.70	40.85
	Overflow, Supply Pipes and Plug { 5 ft.... "	36.50	38.70	40.85

NOTE.—Double Bath Cocks are not included in the Prices of these Baths.

Steel Clad Baths.

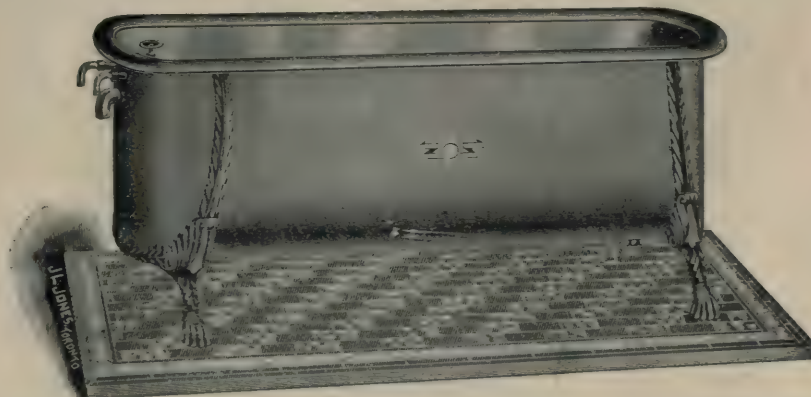
No. 1, with Unique Waste, Overflow and Supply.—Fig. 1423.



No. 2, with Ash or Cherry Rim and Plated Overflow.—Fig. 1424.



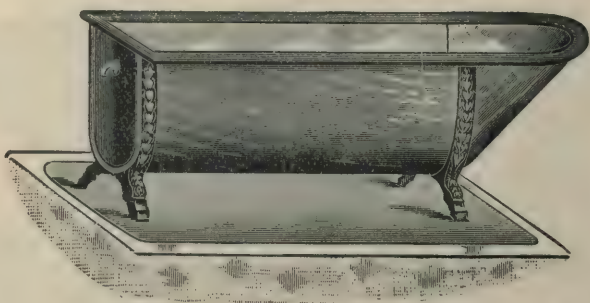
Roman Steel Clad Bath.—Fig. 1425.



		12 oz	14 oz	16 oz
Fig. 1423, No. 1, with N. Plated "Unique" Waste and Supply, with Cherry, Oak or Walnut Rim....	Price each	5'0	53.95	56.13
		5'6	53.95	56.13
Fig. 1424, No. 2, with N. Plated Overflow only, and Ash or Cherry Rim.....	" "	5'0	24.50	No. 2 is only made in 12 oz. Copper
	" "	5'6	26.50	
Fig. 1425, Roman Steel Clad Bath, with Cherry, Oak or Walnut Rim, and N. Plated Overflow and Plug.....	" "	4'6	29.00	30.50
	" "	5'0	31.00	32.50
	" "	5'6	33.00	34.50
				36.00

New Pattern Wood, Iron Bound Bath.

Fig. 1426.



Style A.

Formed of Wood Slats tongued and grooved, 1 in. Thick, covered on the outside with thin Sheet Metal, on the inside between the Wood and Copper Lining with Asbestos Felt, which being a Non-conducting substance, retains the Heat in the Water.

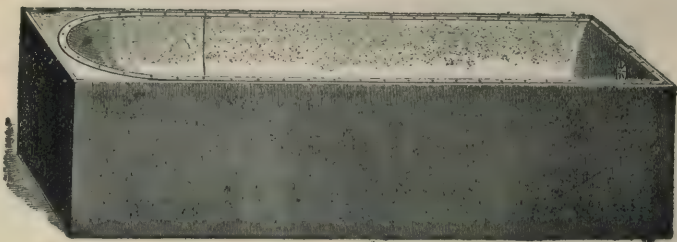
Style B.

Is the same as Style A with the exception that it is not Asbestos Lined inside, nor Metal Lined outside.

	12 oz.	14 oz.	16 oz.
Style A. Painted Outside; Iron Bands Gold Bronzed with Cherry Rim, 5 or 5½ ft. Long.....Price each	20.00	22.00	24.00
Style B. Painted Outside, Iron Bands Gold Bronzed with Cherry Rim, 5 or 5½ ft. Long.....Price each	18.00	20.00	22.00

Planished Copper Lined Bath Tubs.

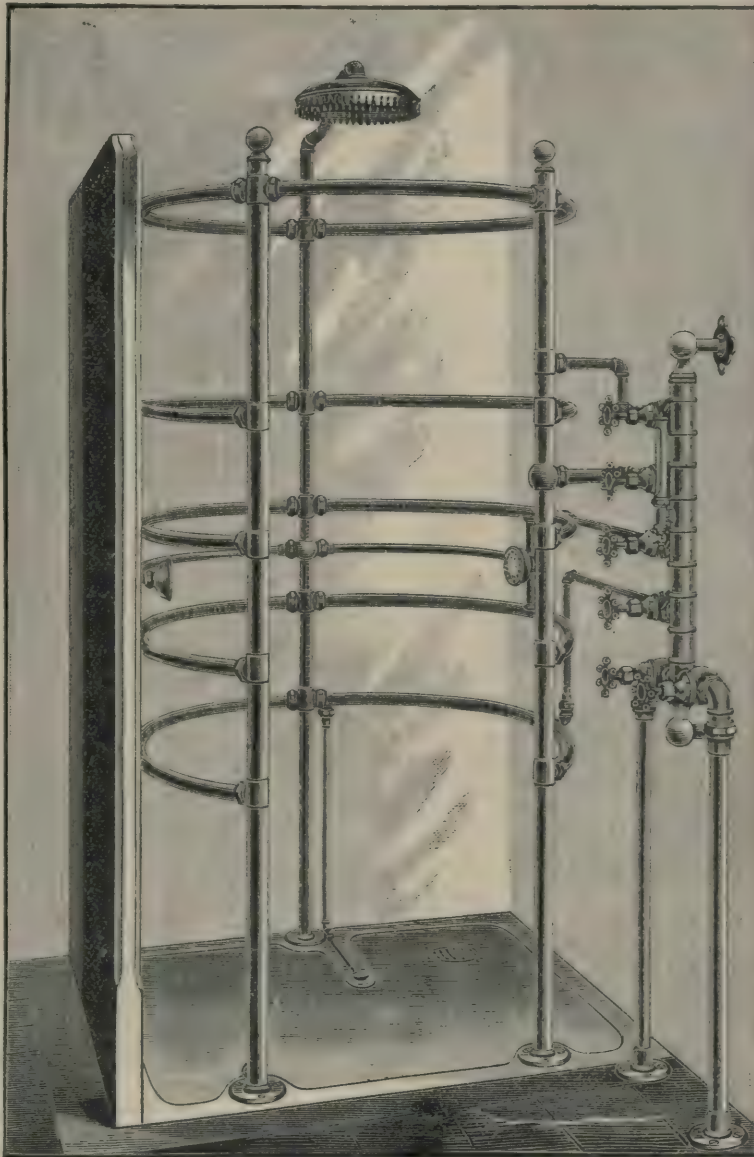
Fig. 1427.



	12 oz.	14 oz.	16 oz.	18 oz.
Regular Tub 5, 5½ or 6 feet Long....Price each	16.00	18.00	20.00	22.00
French Tub { 4½ feet Long "	17.00	19.00	21.00	23.00
{ 5 " " "	19.00	21.00	23.00	25.00
{ 5½ " " "	21.00	23.00	25.00	27.00
Seat Bath "	11.00	12.00	13.00	14.00
Foot Bath "	8.50	9.50	10.50	11.50
Zinc Lined Bath Tub 5½ or 6 feet Long	....	....	....	5.33

Combination Needle, Shower, Liver Spray and Bidet Bath.

No. 830.—Fig. 1428.



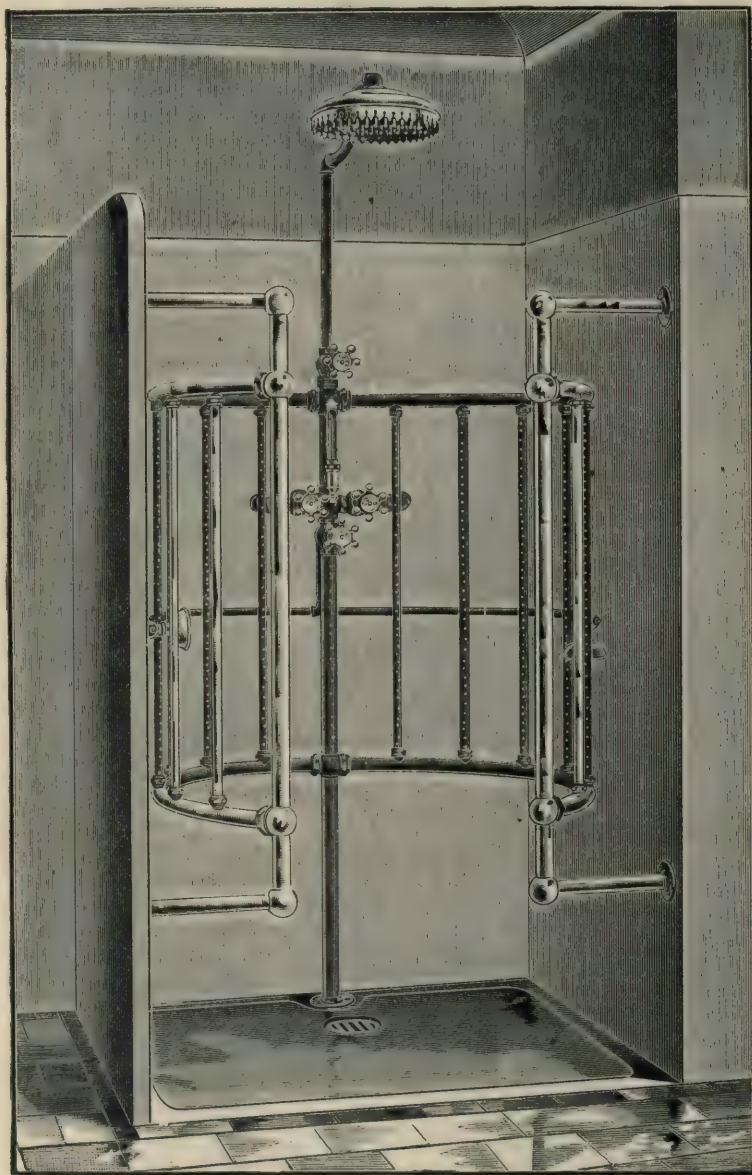
Dimensions:—Height to Top of Shower, 7 feet 6 inches; Diameter of Needle Bath, 3 feet 5 inches; Diameter of Shower, 10½ inches.

Nickel Plated, Combination Needle, Shower, Liver, Spray and Bidet Bath, with Check Valves, Thermometer, and Brass Waste Strainer and Coupling,

Price each \$ 235.00

Combination Needle, Shower and Liver Spray Bath.

No. 1016.—Fig. 1429.



Dimensions.

Height, 7 feet 6 inches ; Diameter, 3 feet 6 inches ; Diameter of Shower, 10½ inches.

Prices.

Nickel Plated Combination Needle, Shower and Liver Spray, with Thermometer,	} \$ 225.00
Check Valves, Nickel Plated Brass Waste and Strainer and Coupling.....	

This Shower is also furnished with the 2 Front Columns extending to Floor, instead of Brackets as shewn, at same price.

Combination Needle and Shower Bath.

No. 991.—Fig. 1430.



Dimensions :—Diameter of Needle Bath, 3 feet ; Diameter of Shower, 10½ inches.

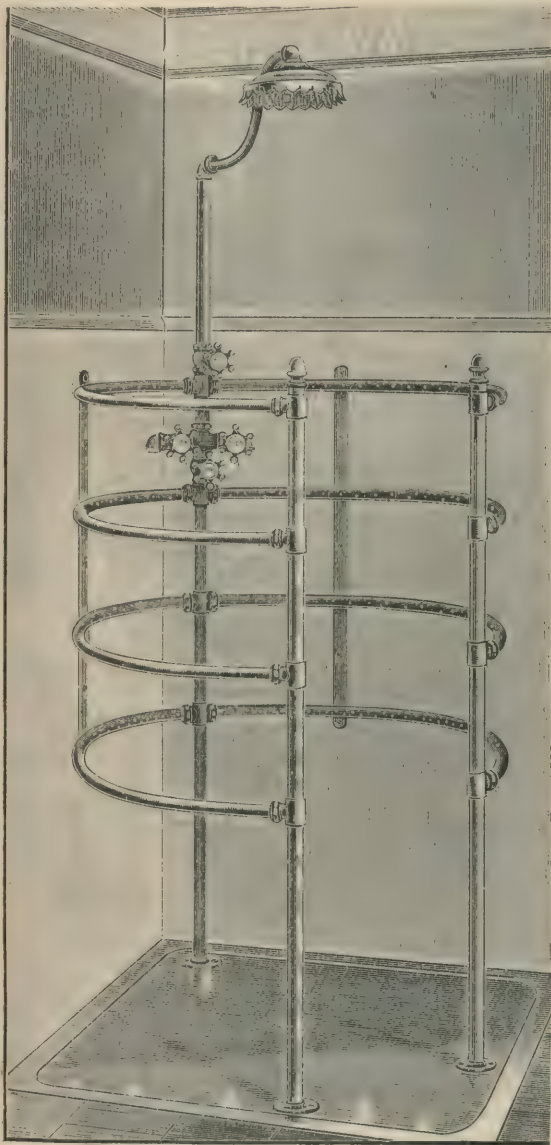
Combination Needle and Shower Bath, with Self-closing Valve for Shower, with
Supply Pipes to Floor, all Nickel Plated.....Price each \$200.00

This Shower can be applied to any Bath, and is made either for Right or Left Hand as may
be required.

Combination Needle and Shower Bath.

No. 63½.—For Hot and Cold Water.

Fig. 1431.



Dimensions.

Height to Top of Shower.....	7 ft. 6 in.
Diameter of Needle Bath.....	3 " 2 "
" Shower "	0 " 8½ "

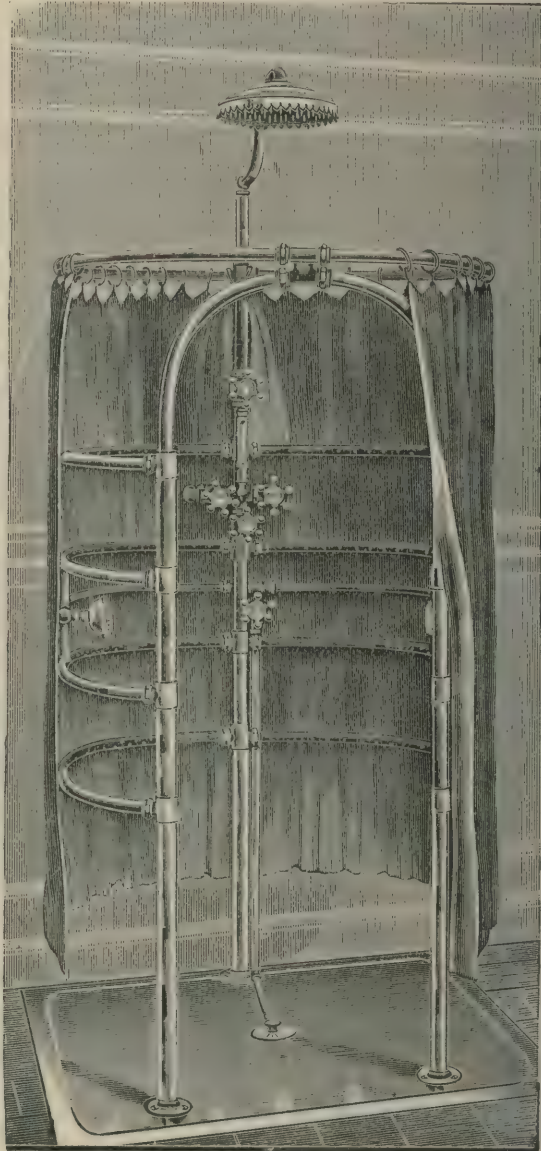
Prices.

Combination Needle and Shower Bath, for Hot and Cold Water, with Waste and Strainer, all Nickel Plated.....	100.00
do. do. for Cold Water only.....	90.00

Combination Needle, Shower, Liver Spray and Bedit Bath.

No. 65.—With Thermometer and Curtain.

Fig. 1432.



Dimensions.

Height to Top of Shower	7 ft. 6 in.
Diameter of Needle Bath.....	3 " 5 "
" Shower.....	0 " 11 "

Prices.

Combination Needle Shower, Liver Spray and Bedit Bath with Check Valves and Thermometer, all Nickel Plated, Brass Strainer, Waste Coupling and Rubber Curtains.....	217.00
--	--------

Combination Unique Waste, Overflow, Supply, Shower & Shampoo

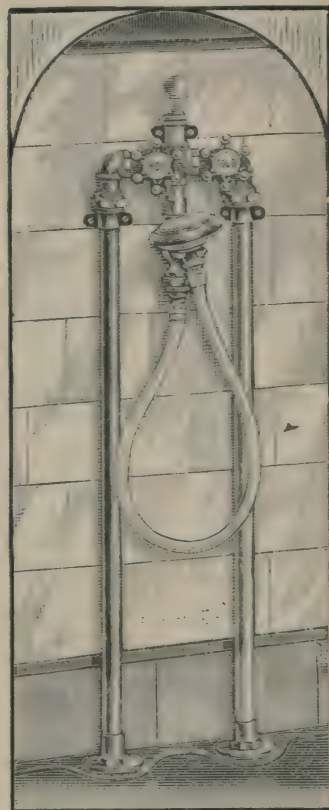
Fig. 1433,



Brass Shampoo.

WITH SUPPLY PIPES TO FLOOR, FOR HOT AND COLD WATER.

Fig. 1434.



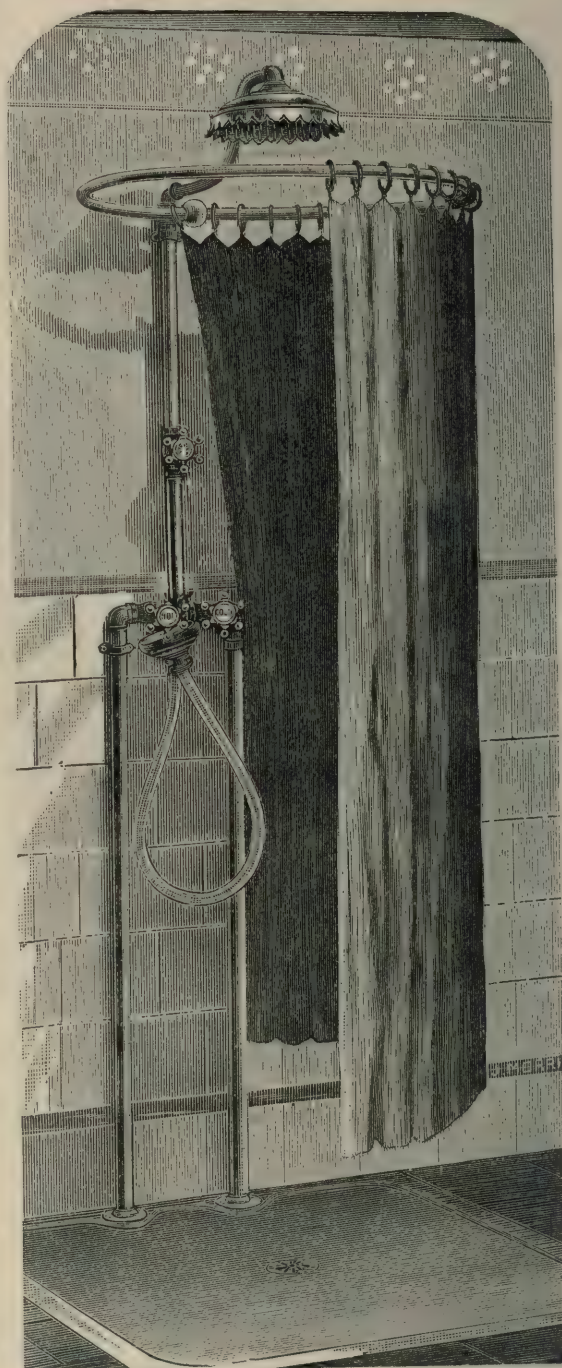
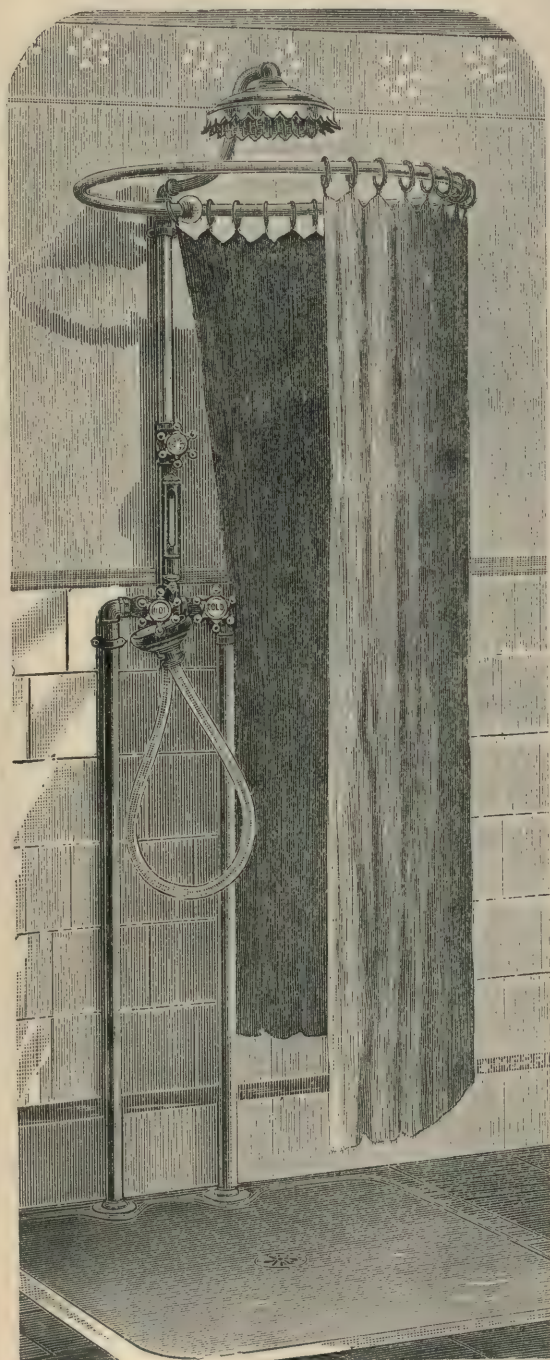
Nickel Plated, price each \$13.00

Combination Unique Waste, Overflow and Supply, with Shower, Curtain Ring and Shampoo, Nickel Plated.....		Price each	85.00
White Rubber Curtains, extra.....	" "		8.00
Black " " ".....	" "		6.00

Combination Shower and Shampoo.

No. 62½.—With Shampoo, Curtain, &c.
Fig. 1435.

No. 63.—With Shampoo, Curtain, &c.
No Thermometer.
No. 1436.



Dimensions of Nos. 62½ and 63, Height 7 ft. 9 in., Diam. of Shower 8½ in., Diam of Ring 25 in., Lateral distance to Centre of Shower 18 in.

Nickel Plated Shower, with Shampoo,	} 43.50
Thermometer, Check Valves and	
White Rubber Curtain.....	
do. do. less Curtain Ring and Curtain	29.00

Nickel Plated Shower, with Shampoo,	} 38.50
Check Valves, Curtain Ring and	
White Rubber Curtain.....	

Shower.No. 836.—With Supply Pipes to Floor.
No. 1437.**Dimensions.**

Total Height.....	7 ft. 9 in.
Diam. of Shower.....	8½ "
Lateral Distance from Wall to Centre of Shower.....	18 "

Price.

Shower with Supply Pipes to Floor, Hot and Cold Water, Nickel Plated.....	18.00
½ Supply Pipes, ¾ Mixing Column and 10½ Shower.....	23.00

Ring Shower.No. 835.—With Shampoo and Supply Pipes to Floor.
Fig. 1438.**Dimensions.**

Total Height.....	7 ft. 3 in.
Diam. of Ring.....	20 "
Lateral Distance from Wall to Centre of Ring.....	18 "

Price.

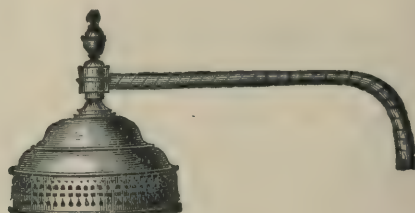
Ring Shower, with Shampoo and Supply Pipes to Floor, Hot and Cold Water, Nickel Plated.....	24.00
do. do. Without Shampoo.....	18.00

Copper Showers.

No. 1.—Fig. 1439.



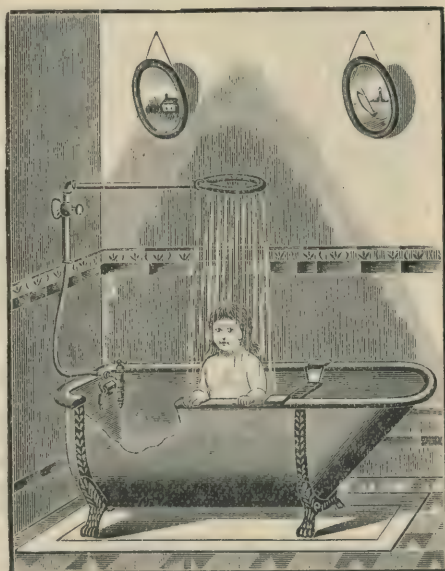
No. 2.—Fig. 1440.



Number.....	1	2	3	4	5	6
Price each.....	2.00	2.50	3.00	4.50	5.00	5 50

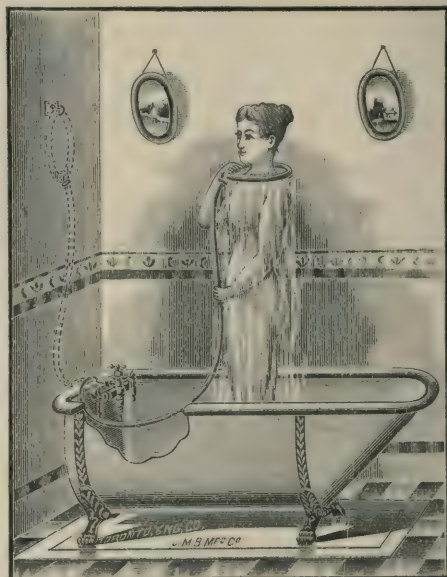
Adjustable Swinging Ring Shower.

Fig. 1441.



Portable Ring Shower.

Fig. 1442.



Internal Diameter of Rings $10\frac{1}{2}$ inches

Fig. 1441. Adjustable Swinging Ring Shower, Nickel Plated,.....	Price each	4.00
" 1442. Portable Ring Shower, to go over the Head, Nickel Plated....	" "	2.75

Bath Room Fittings.

Towel Racks.

PLAIN, SINGLE BAR.—Fig. 1443.



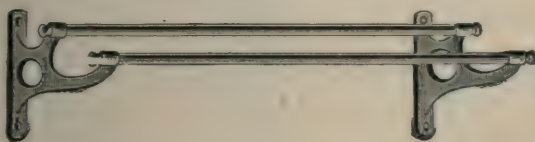
FANCY, SINGLE BAR.—Fig. 1444.



				Length.	Width.	PRICE.	
						Polished.	N.Plated.
Fig. 1443.	No. 1, Plain	.....	Price each	1 ft. 6 in.	4 inch.	90	1.00
" "	" 2, "	.....	"	2 " 0 "	4 "	1.15	1.25
" "	" 3, "	.....	"	2 " 6 "	4 "	1.30	1.50
" 1444.	" 1, Fancy	.....	"	4 " 0 "	5 "	3.75	4.00
" "	" 2, "	.....	"	4 " 6 "	5 "	4.25	4.50
" "	" 3, "	.....	"	5 " 0 "	5 "	4.70	5.00

Towel Racks.

TWO BAR.—Fig. 1445.



FOLDING.—Fig. 1446.



				Length.	Width.	PRICE.	
						Polished.	N. Plated.
Fig. 1445.	No. 1, Two Bar.....	Price each	1 ft. 9 in.	4½ inch.	2.25	2.50	
" "	" 2, "	"	2 " 3 "	4½ "	2.75	3.00	
" 1446.	Three Arm Folding.....	"	1 " 6 "	.....	3.50	4.00

Towel Shelves.

BAR SHELF.—Fig. 1447.



WIRE SHELF.—Fig. 1448.



				Length.	Width.	PRICE.	
						Polished.	N. Plated.
Fig. 1447.	No. 1, Bar Shelf	Price each	1 ft. 9 in.	6 inch.	2.75	3.00	
" "	" 2, " "	"	2 " 3 "	6 "	3.75	4.00	
" 1448.	Wire Shelf	"	1 " 7 "	6½ "	4.60	5.00	

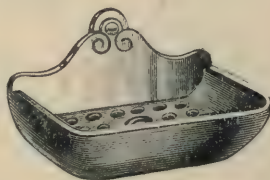
Bath Room Fittings.

Soap Trays.

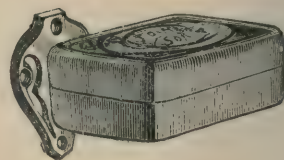
THE "GEM" (Registered), TO ATTACH
TO RIM OF BATH.—Fig. 1449.



TO ATTACH TO WALL.
Fig. 1450.



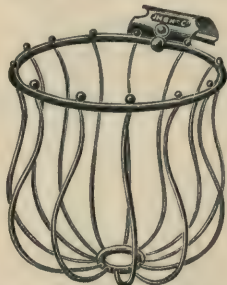
TO ATTACH TO WALL.
Fig. 1451.



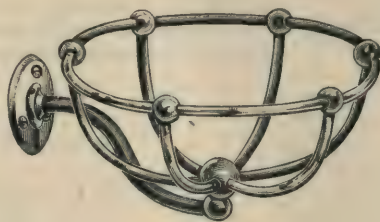
	Length	Width	PRICE.	
			Pol'd.	N. P.
Fig. 1449. The "Gem" Tray Price each	6 in.	3 1/4 in.	1.80	2.00
" 1450. Tray to Attach to Wall "	6 "	3 1/2 "	1.80	2.00
" 1451. " " " "	4 "	3 "	1.60	1.80

Sponge Holders.

THE "GEM" (Registered), TO ATTACH
TO RIM OF BATH.—1452.



TO ATTACH TO WALL.
Fig. 1453.



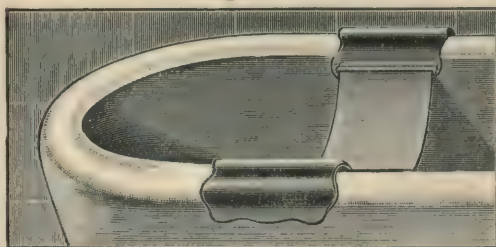
SMALL SPONGE HOLDER.
Fig. 1454.



	Diam.	Depth.	PRICE.	
			Pol'd.	N. P.
Fig. 1452. Gem Sponge Holder Price each	8 in.	8 in.	5.50	6.00
" 1453. Bracket Sponge Holder "	7 1/2 "	4 "	2.75	3.00
" 1454. " " " Small "	5 1/2 "	4 "	2.25	2.50

Bath Seats.

COMBINED BATH SEAT AND HEAD REST.
Fig. 1455.



PATENT BATH SEAT.
Fig. 1456.



Fig. 1455. Combined Bath Seat and Head Rest	{ For Roll Rim Baths, N. Plated..... Price each	3.00
" 1456. Patent Bath Seat, Nickel Plated.....		1.25
	{ " Porcelain Baths, "	5.00

Closet, Hopper, Tank, Flush and Supply Pipe, Seat and Closet Stall Fittings.

Compression Hopper Cocks, Finished Plate and Handle.

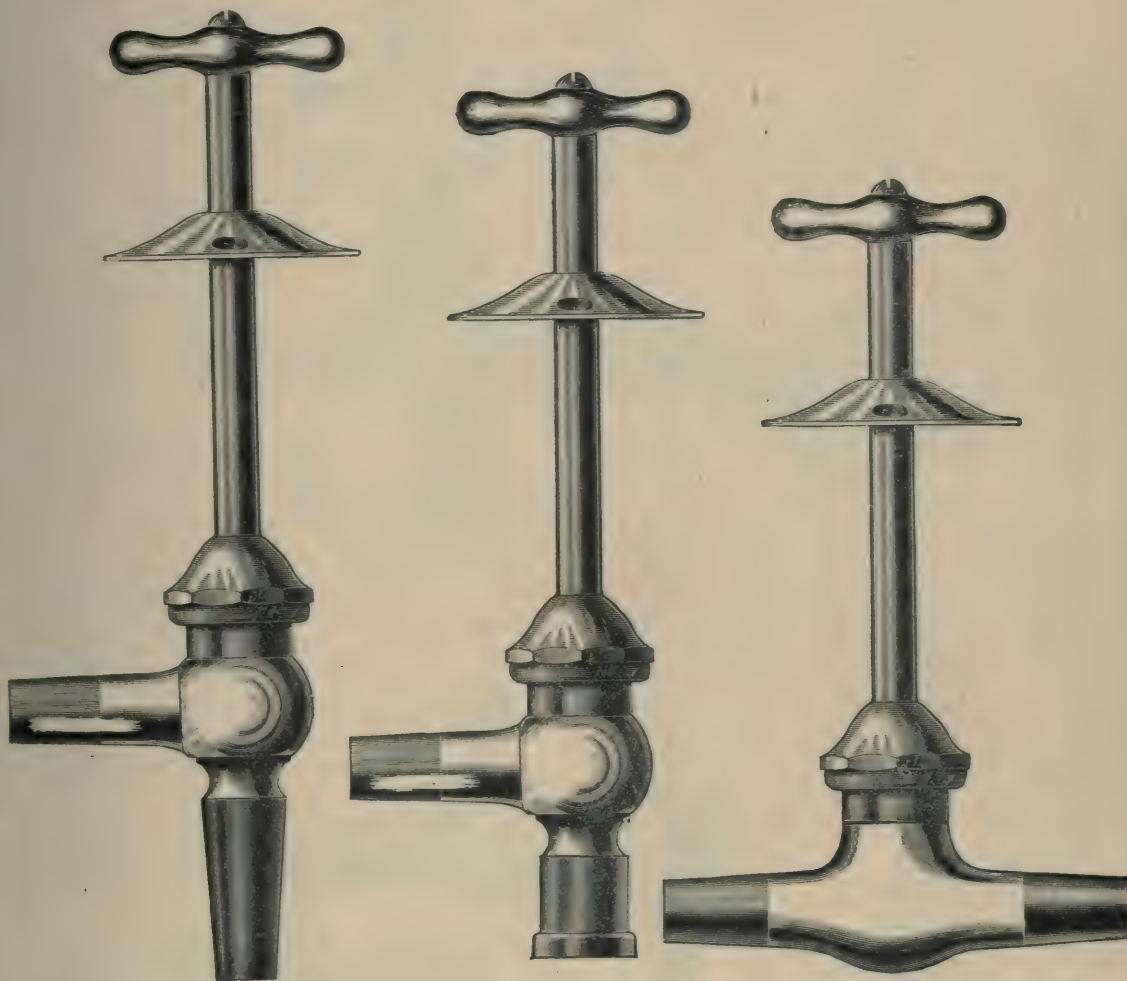
ANGLE FOR LEAD PIPE.

Fig. 1457.

ANGLE FOR LEAD AND IRON PIPE. STRAIGHT FOR LEAD PIPE.

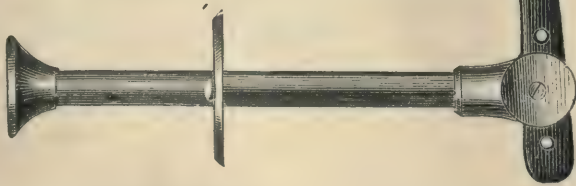
Fig. 1458.

Fig. 1459.

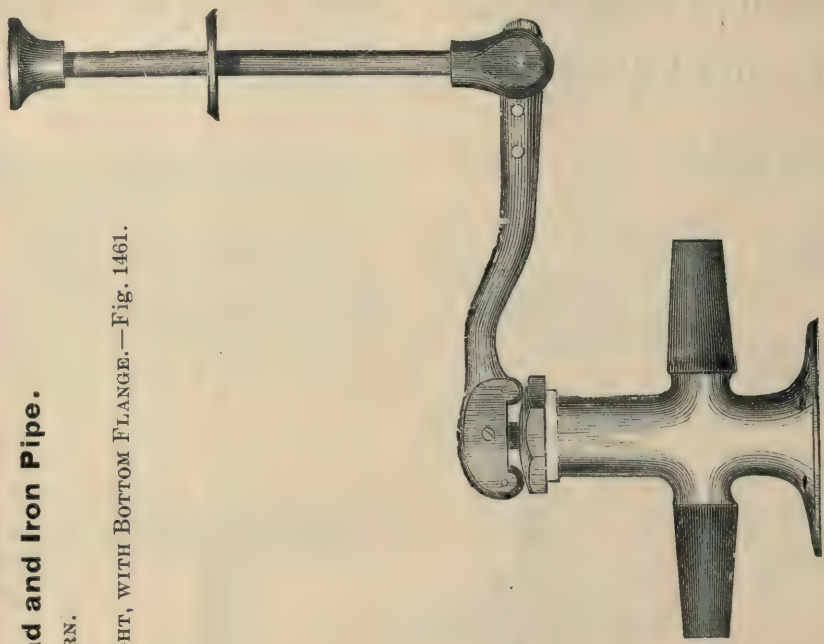


Size		$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
Fig. 1457. Angle for Lead Pipe, Finished	Price each	16.00	19.00	24.00
" " " " " N. Plated	"	18.50	21.50	26.50
" 1458. " " and Iron Pipe, Finished ..	"	17.00	20.00	26.00
" " " " " N. Plated ..	"	19.50	22.50	28.50
" 1459. Straight for Lead Pipe, Finished	"	18.00	21.00	28.00
" " " " " N. Plated	"	20.50	23.50	30.50

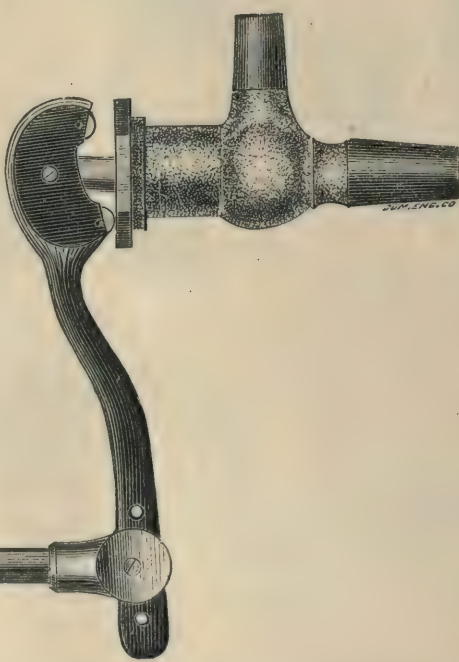
Self-Closing Hopper Cocks.
Finished Flange and Handle, for Lead and Iron Pipe.
ANGLE AND STRAIGHT PATTERN.



ANGLE.—Fig. 1460.



STRAIGHT, WITH BOTTOM FLANGE.—Fig. 1461.



Description	Angle For Lead Pipe.		Angle For Iron Pipe.		Description.....	Straight For Lead Pipe.		Straight For Iron Pipe.	
	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$		$\frac{1}{2}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
Size, Inches					Size, Inches				
Finished.....	24.00	26.00	25.00	27.50	Finished.....	27.00	29.00	28.00	30.00
Nickel Plated	26.00	28.50	27.50	29.50	Nickel Plated	29.00	31.50	30.00	32.50
Price per dozen					Price per dozen				
“					“				
“					“				

Hopper Cocks and Valves.

Improved Stop and Waste Hopper Cock, Kelly Pattern.

Fig. 1462.

Specially adapted for Closets, Hoppers, Etc., in Areas and Cold Situations, when it can be put down in the ground below the Frost Line.



The "Mueller" Pat. Hopper Cock.

Fig. 1464.

HOPPER VALVE, OLD PATTERN, WITH FLANGE TO ATTACH TO FLOOR.

Fig. 1463.

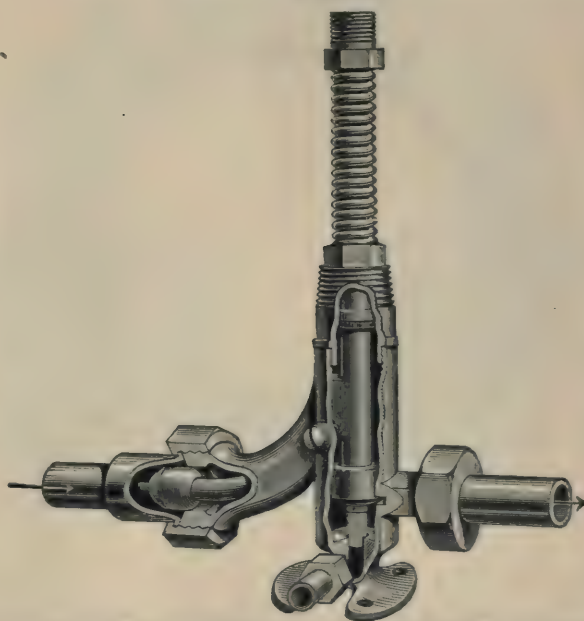
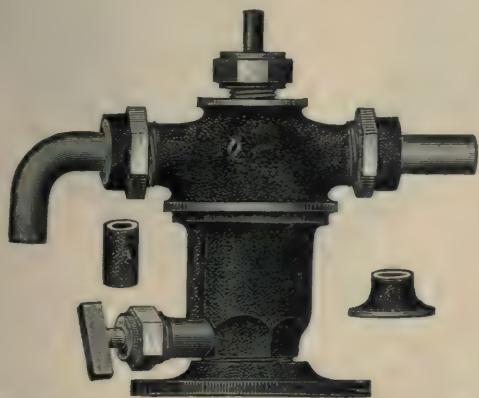


Fig. 1462.	Improved Stop and Waste Hopper Cocks, $\frac{1}{2}$ in.....	Price each	5.00
" 1463.	Hopper Valve, Old Pattern, $\frac{1}{2}$ in.....	"	2.50
" 1464.	The "Mueller" Patent Hopper Cock, $\frac{1}{2}$ in.....	"	3.00

Hopper and Closet Fittings.

HOPPER PULL.

Fig. 1465.



CLOSET VALVE.

Fig. 1466.

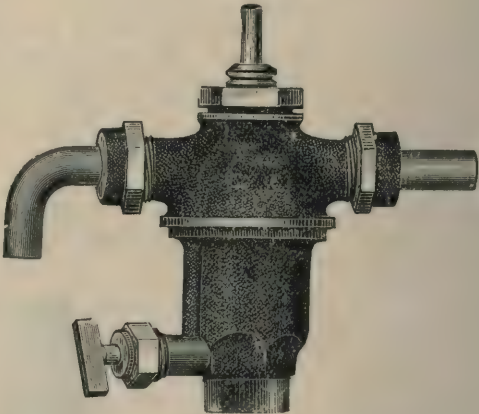
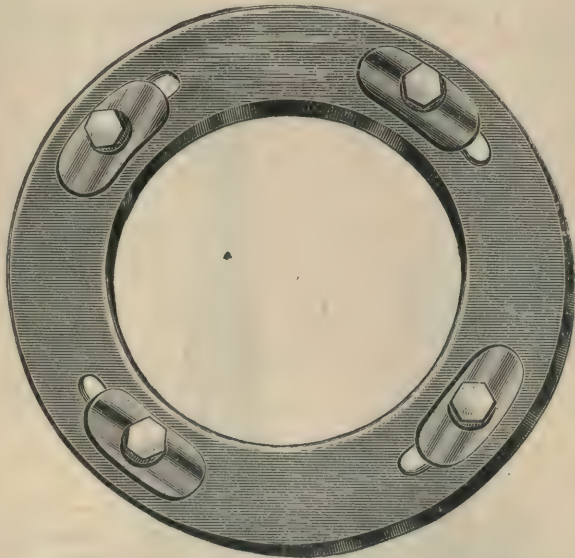


Fig. 1465.	Hopper Pull, Cast Iron	Price each	40
" 1466.	Closet Valve, for Valve Pan Closet.....	"	2.00

Floor Flanges and Gaskets.

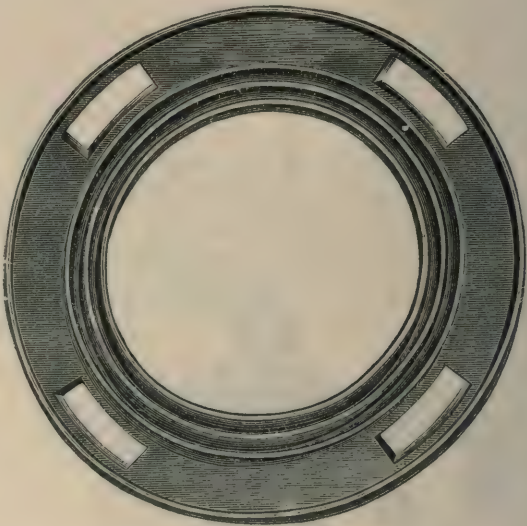
FLOOR FLANGE WITH BOLTS AND PLATES.

Fig. 1467.



RUBBER GASKET FOR FLOOR FLANGE.

Fig. 1468.



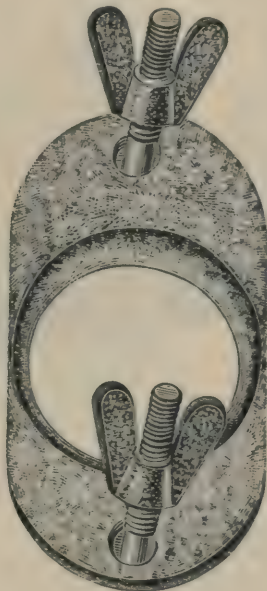
							Rough.	Finished.	N.Plated.
Fig. 1467.	Floor Flange, Ordinary, with 4 Bolts....	Price each					75	1.00	1.25
" "	" " " " "Richelieu" " 3 "	"					75	1.00	1.25
" "	" " " " "Titan" " 4 "	"					85	1.10	1.35
" "	" " " " "Primo" " 2 "	"					75	1.00	1.25
" "	" " " " "Demarest" " 2 "	"					75	1.00	1.25
" 1468.	Rubber Gaskets only.....	"					....	....	25

Closet Fittings.

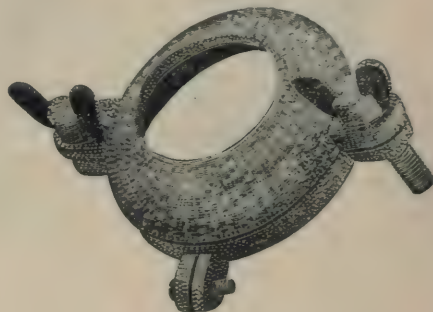
ADJUSTABLE INLET
CONNECTION.
Fig. 1469.



INLET CONNECTION, BRASS PLATE
AND BOLTS.
Fig. 1470.



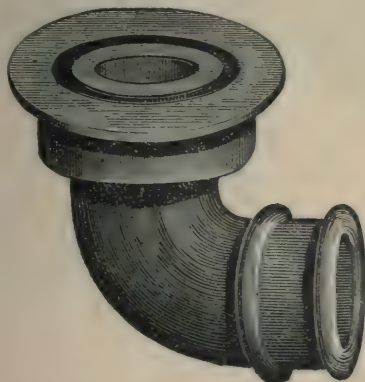
INLET CONNECTION FOR CLOSETS.
Fig. 1471.



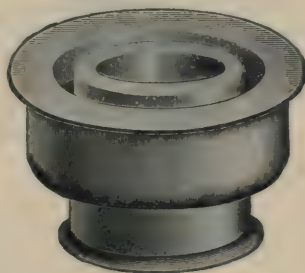
	Rough.	Finished.	N. Plated.
Fig. 1469. Adjustable Inlet Connection.....Price each	..	1.75	2.00
" 1470. Brass Plate " "	40	50	60
" 1471. Inlet Connection with Rubber Gasket	40	50	60

Rubber Inlet Connections for Closets.

ELBOW PATTERN.
Fig. 1472.



STRAIGHT PATTERN.
Fig. 1473.



TAPER PATTERN.
Fig. 1474.



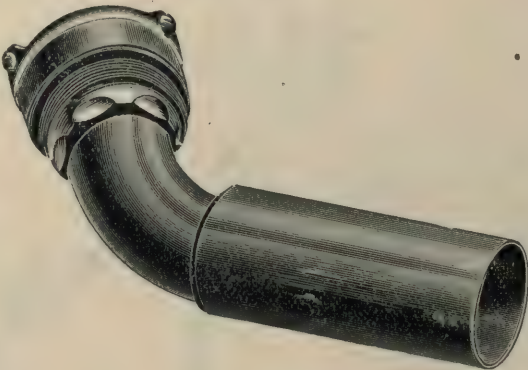
Size	1 1/4	1 1/2	2
Fig. 1472. Elbow Pattern	10.00	.....	.....
" 1473. Straight "	5.00	6.50	12.00
" 1474. Conical "	5.00	.....	6.50

Closet Fittings.

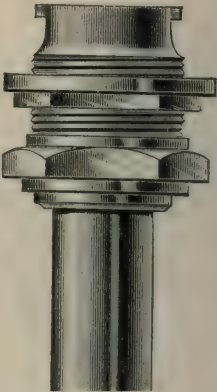
VENT CONNECTION WITH
BENT TAIL.
Fig. 1475.



VENT CONNECTION WITH BENT TAIL AND
EXTENSION PIPE TO WALL.
Fig. 1476.



"DESCENDO" VENT
CONNECTION.
Fig. 1477



		Polished Brass.	Nickel Plated.
Fig. 1475. Vent Connection.....	Price each	2.00	2.25
" 1476. Vent Connection with Extension Pipe	"	2.25	2.50
" 1477. "Descendo" Vent Connection	{ Lead Pipe.....	1.35	1.50
	{ Iron "	1.35	1.50

VENT CONNECTION.
Fig. 1478.



RUBBER GASKETS FOR INLET AND VENT CONNECTIONS.
NOS. 1 & 2 VENT. NOS. 3 & 4 INLET.
Fig. 1479. Fig. 1480.

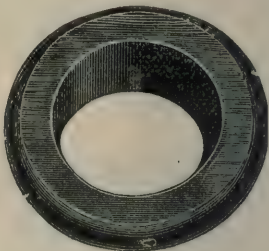
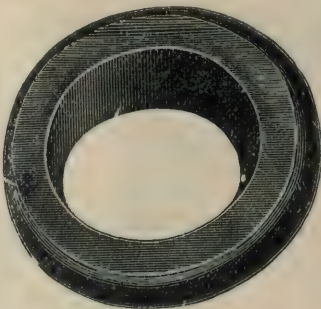


Fig. 1478.—Vent Connection.

	Rough.	Finished.	N. Plated.
With Rubber Gasket.....Price each	60	70	80

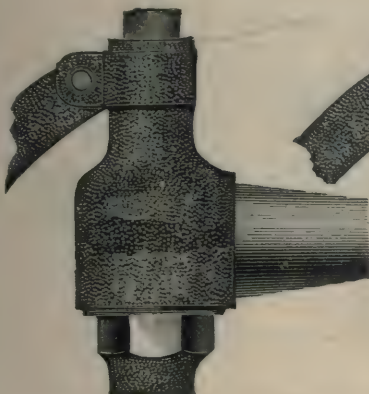
Figs. 1479 and 1480.—Rubber Gaskets.

Number and Size of Gasket. For Lead Pipe and Horn.	No. 1 For 2" L Pipe and Vent.	No. 2 For 1½" L Pipe and Vent.	No. 3 For 1¼" L Pipe and Inlet.	No. 4 For 1½" L Pipe and Inlet.
Price per dozen.....	4 80	3.60	2.40	2.00

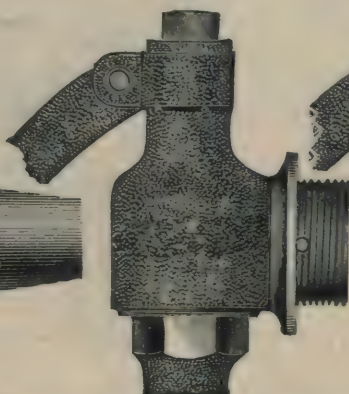
Ball Cocks.

Morrison's Improved Compression Ball Cock.

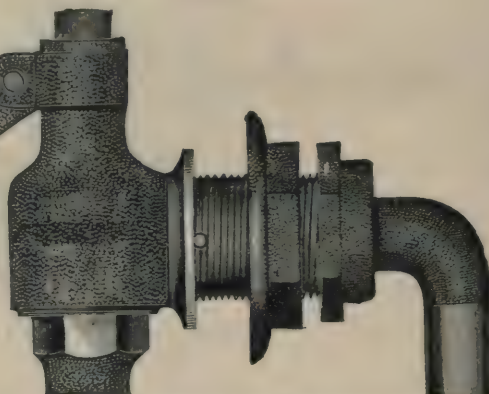
FOR LEAD PIPE.
Fig. 1481.



FOR IRON PIPE.
Fig. 1482.



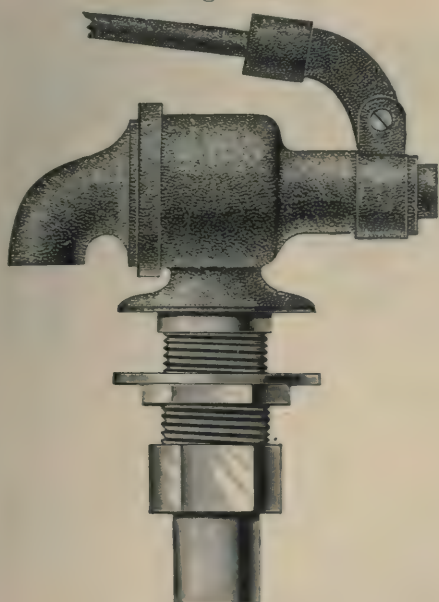
WITH FLANGE AND COUPLING.
Fig. 1483.



Size, Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. 1481. For Lead Pipe with Levers, per doz	12.00	14.00	20.00	34.00	56.00	80.00	150.00
" 1482. " Iron Pipe " "	13.00	15.00	22.00	36.00	60.00	85.00	160.00
" 1483. With Flange, Nut & Coupling "	17.50	22.00	....	....	....	....	....

LOW DOWN
COMPRESSION BALL COCK.

Fig. 1484.



The "Birkery."

HIGH PRESSURE BALL COCK.
Patented August 6th, 1892.

BOTTOM SUPPLY.
Fig. 1485.



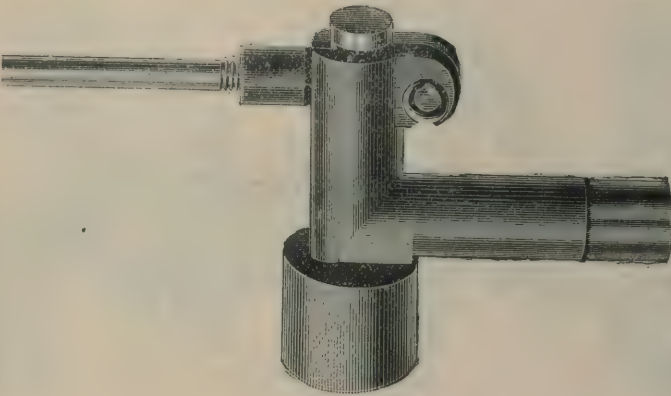
END SUPPLY.
Fig. 1486.



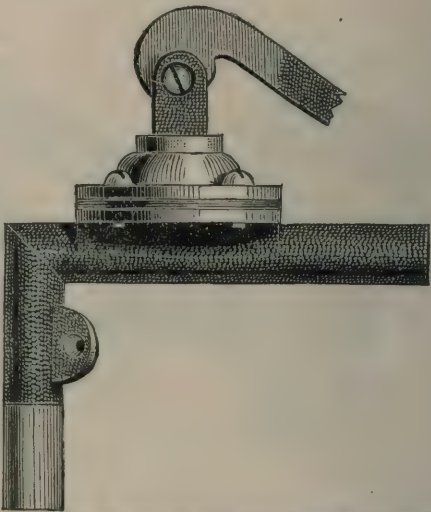
Fig. 1484. Low Down Compression Ball Cock.....	Price each	1.50
" 1485. "Birkery" Bottom Supply	"	1.75
" 1486. " End "	"	1.75

Ball Cocks.

LAMBERT BALL COCK.
Fig. 1487.

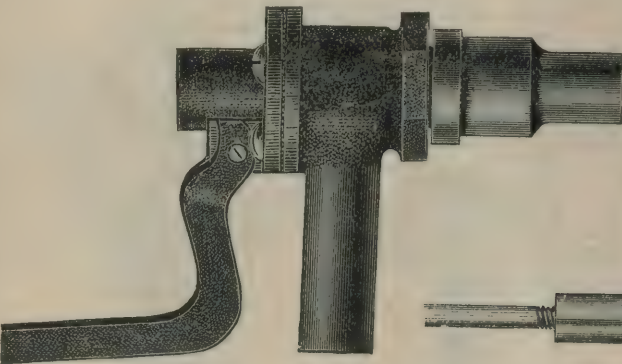


LAMBERT CAM BALL COCK.
Fig. 1488.



Size of Lead Pipe	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 1487. Lambert Ball Cock	Price per dozen	11.00
" 1488. " Cam Ball Cock	" "	12.00
		18.00

IMPROVED COMPRESSION BALL COCK.
Fig. 1489.



COMPRESSION BALL COCK, "SHANKS" PATTERN.
Fig. 1490.

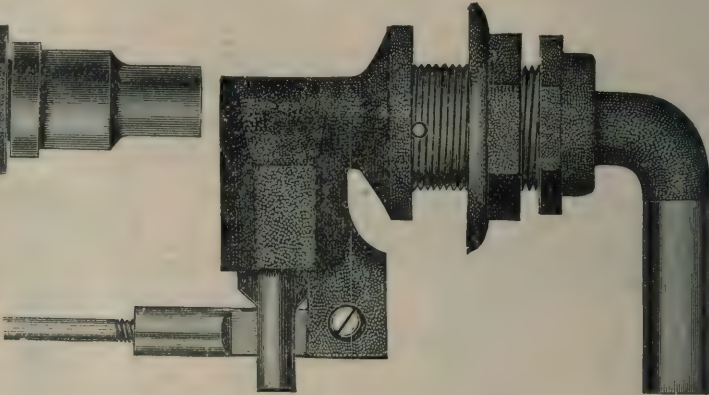


Fig. 1489.—Improved Compression Ball Cock.

Size	$\frac{1}{2}$
For Iron Pipe Connection, with Lever	Price per dozen
With Thimble for Lead Pipe Connection	" "
	18.00
	20.00

Fig. 1490.—Shanks Pattern.

Size for Lead Pipe Connection	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
With Levers	Price per dozen	14.50	18.00
		22.00	

Ball Cocks.

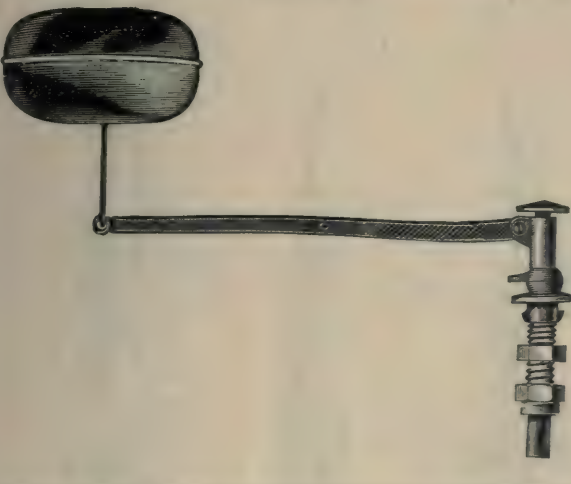
Improved Compression Ball Cock with Nut and Coupling.
Fig. 1491.



Compression Ball Cock, Long Shank, with Flange Nut, and Bent Coupling.
Fig. 1492.



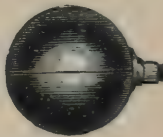
Bottom Supply or Low Down Ball Cock.
Fig. 1493.



"Success" Ball Cock.
Fig. 1494.



Copper Balls.
Fig. 1495.



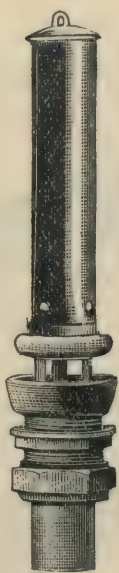
Size.....		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
Fig. 1491. Improved Ball Cock with Levers....	Price per dozen	13.00	14.00	16.00
" 1492. " Ball Cock Long Shank Levers " "	" "	14.00	16.00	....
" 1493. Low Down Ball Cock with Cop. Balls " "	" "	18.00	19.25	....
" 1494. The "Success" Ball Cock .....	" "	....	18.00	....

Fig. 1495.—Copper Balls.

Diameter of Balls, Inches	4	5	6	7	8	12	
Balls, in Halves	Price per dozen	1.56	1.80	2.16	3.12	4.08	....
" Soldered	" "	1.92	2.28	2.88	4.08	5.04	....

Tank Valves.

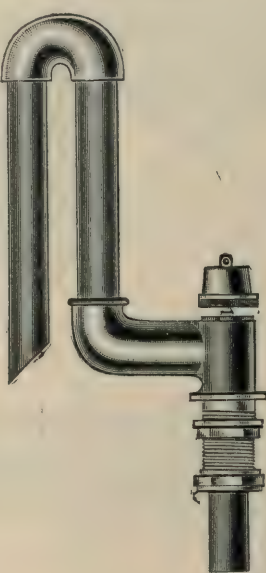
No. 1.
SYPHON VALVE.
Fig. 1496.



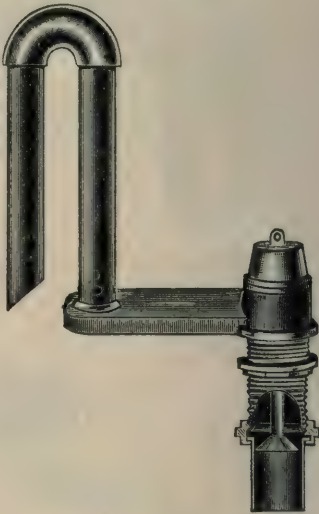
No. 2.
SYPHON VALVE.
Fig. 1497.



No. 3.
SYPHON VALVE.
Fig. 1498.



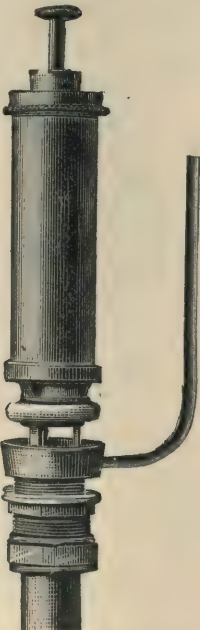
No. 3½.
SYPHON VALVE.
FOR AUTOMATIC SEAT
ATTACHMENTS.
Fig. 1499.



No. 4.
SYPHON VALVE.
Fig. 1500.



No. 4½.
SYPHON VALVE.
Fig. 1501.



No. 5.
COMMON OVERFLOW
VALVE.
Fig. 1502.



No. 6.
COMMON
OVERFLOW VALVE.
Fig. 1503.



No. 7.
1¼" VALVE AND
OVERFLOW.
Fig. 1504.



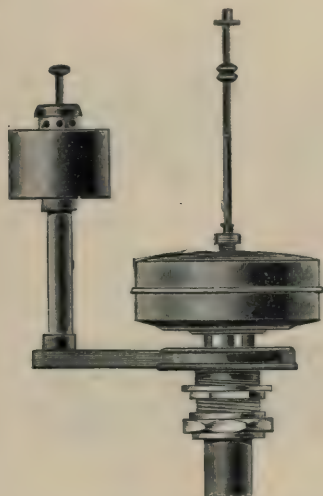
Number	1	2	3	3½	4	4½	5	6	7
Price each.....	1.20	1.50	2.85	3.75	2.25	2.75	1.50	1.50	2.00

Tank Valves.

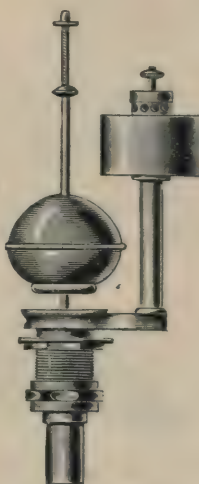
No. 9.—NOISELESS
RE-FILL VALVE.
Fig. 1505.



No. 25.—NOISELESS
RE FILL VALVE FOR
SYPHON CLOSET.
Fig. 1506.



No. 25½.—NOISELESS
RE-FILL VALVE FOR
SYPHON CLOSET.
Fig. 1507.



4 IN. VALVE WITH
2 IN. OVERFLOW.
Fig. 1508.

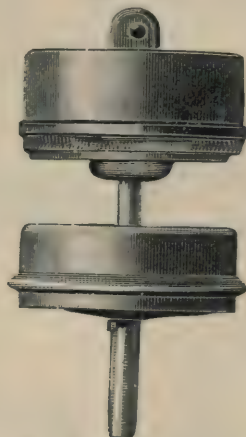


Fig. 1505.	No. 9, Re-fill and Overflow Valve.....	Price each	3.50
" 1506.	" 25, " " " "	"	6.75
" 1507.	" 25½ " " " "	"	5.00
" 1508.	4 in. Valve with 2 in. Overflow	"	3.00

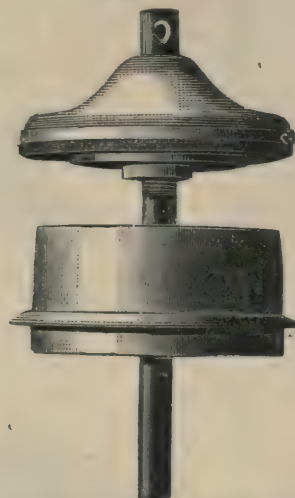
1½ IN. AND 2 IN. VALVE.
Fig. 1509.



3 IN. VALVE.
Fig. 1510.



4 IN. VALVE.
Fig. 1511.

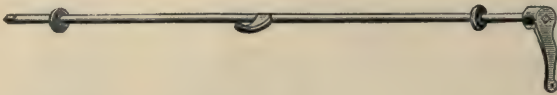


Size of Valves, Inches	1½	2	3	4
Finished	67	1.00	1.40	2.00

Tank Levers and Rests.

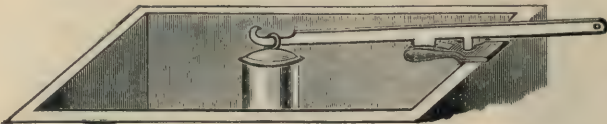
Cast Iron.

Fig. 1512.



For Round Front Syphon Cistern, JapannedPrice each .25

Fig. 1513



For No. 1 Syphon Cistern, Japanned.....Price each .15

Fig. 1514.



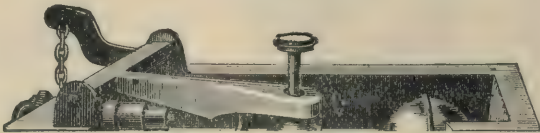
For No. 2 Syphon Cistern, Japanned.....Price each .15

Fig. 1515.



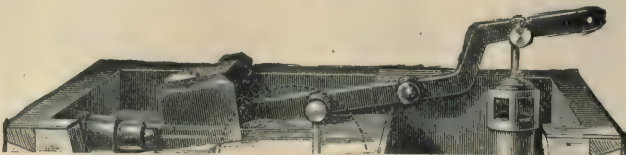
For No. 9, Noiseless Re-fill, Japanned.....Price each .65
“ 25, “ “ , Lever Polished and N. Plated “ 1.00

Fig. 1516.



For Nos. 4 and 4½ Syphon Cistern, JapannedPrice each .50

Fig. 1517.



For No. 11 Afterwash Cistern, Japanned, with Brass Bolts Price each 1.50

Tank Fittings.

Brass Flush Pipes.

No. 1.
FLUSH PIPE WITH CAST
BRASS OFFSET.

Fig. 1518.



Height, 5 ft 6 in.

No. 2.
FLUSH PIPE WITH
BENT OFFSET.

Fig. 1519.



Height, 5 ft. 6in.

No. 3.
FLUSH PIPE WITH BENT
OFFSET AND BENT
INLET TO CLOSET.

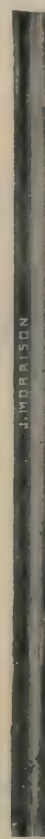
Fig. 1520.



Height, 5 ft. 6 in.

No. 4.
FLUSH PIPE, STRAIGHT,
WITHOUT BENDS.

Fig. 1521.



Height, 5 ft. 6 in.

							Polished Brass.	Nickel Plated.
Fig. 1518.	No. 1.	1 1/2	Tube, with Cast Offset, Standard.....	Price each			5.00	5.75
" 1519.	" 2.	1 1/4	" " Bent " " " " " " " " " " " "				2.75	3.25
" "	" 2.	1 1/2	" " " " " " " " " " " " " "				3.25	3.75
" 1520.	" 3.	1 1/4	" " " " & Inlet " " " " " " " "				3.50	4.00
" "	" 3.	1 1/2	" " " " " " " " " " " " " "				4.00	4.50
" 1521.	" 4.	1 1/4	Straight Tube, no Bends " " " " " " " "				2.25	2.75
" "	" 4.	1 1/2	" " " " " " " " " " " " " "				2.75	3.25

NOTE.—A Standard Flush Pipe is 5 ft. 6 in. high, and the Offset is 2 1/2 inches centre to centre. Flush Pipes can be made any height, and the Offsets any distance centre to centre, to order, at extra cost.

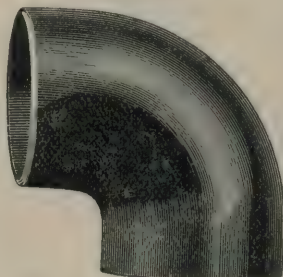
Tank Fittings.

Brass Flush Pipe Fittings.

CAST BRASS
OFFSET.
Fig. 1522.



PLAIN ELBOWS FOR
BRASS TUBE.
Fig. 1523.



45° ELBOWS FOR
BRASS TUBE.
Fig. 1524.



SHORT $\frac{1}{4}$ BEND WITH
SLIP JOINTS.
Fig. 1525.

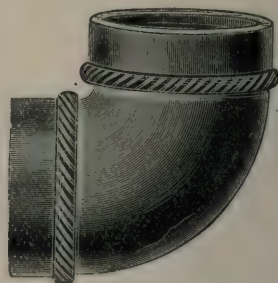


Fig. 1522.—**Cast Brass Offset.**

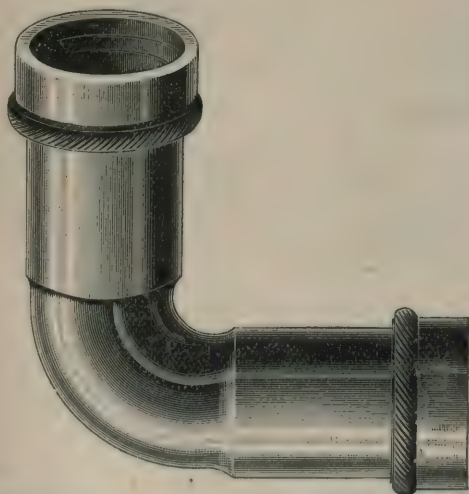
Distance Centre to Centre of Offset, Inches	2	2½	3	4
Polished Brass Price each	1.25	1.30	1.40	1.50
Nickel Plated “	1.40	1.50	1.60	1.75

Figs. 1523, 1524 and 1525.—**Flush Pipe Elbows.**

		$1\frac{1}{4}$		$1\frac{1}{2}$	
		Polished Brass.	Nickel Plated.	Polished Brass.	Nickel Plated.
Fig. 1523.	Plain Elbow, for Brass Tube....	Price each			
" 1524.	45° " " " "	45	55	50	60
" 1525.	Short Bend with Slip Joints....	90	1.00	1.00	1.10

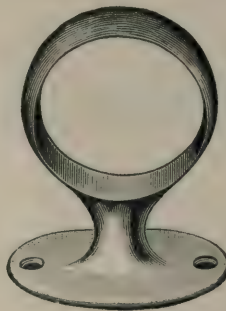
Flush Pipe, Long Bend.

Fig. 1526.



Flush Pipe Stays

No. 1.—PLAIN.
Fig. 1527.



No. 2.
WITH RUBBER BUMPER.
Fig. 1528.



		Polished Brass.	Nickel Plated.
Fig. 1526.	Long Bend, for $1\frac{1}{4}$ or $1\frac{1}{2}$ Brass Tube	1.75	2.00
" 1527.	Flush Pipe Stay, for $1\frac{1}{4}$ or $1\frac{1}{2}$ Brass Tube "	27	32
" 1528.	Flush Pipe Stay with Bumper for $1\frac{1}{4}$ or $1\frac{1}{2}$ Brass Tube	30	35

Flush Pipe Fittings.

Brass Flush Pipe Stays.

No. 3.
PLAIN.
Fig. 1529.



No. 4.
WITH RUBBER BUMPER.
Fig. 1530.



No. 5.
COMBINED FLUSH AND
SUPPLY PIPE
STAY.
Fig. 1531.



No. 6.
COMBINED FLUSH AND
SUPPLY PIPE STAY
WITH RUBBER BUMPER.
Fig. 1532.



Number	Fig. 1529. No. 3.	Fig. 1530. No. 4.	Fig. 1531. No. 5.	Fig. 1532. No. 6.
Polished Brass, for 1½ or 1½ in. Tube.....Price each	35	38	45	55
Nickel Plated....."	40	43	52	62

Flush Pipe Stays and Straps.

Flush Pipe Stay.

No. 7.

PLAIN.

Fig. 1533.



Flush Pipe Straps.

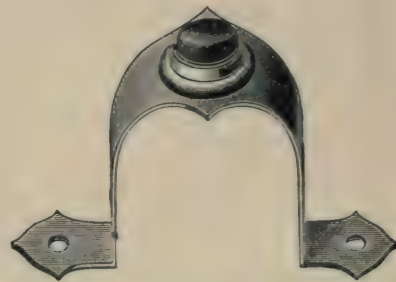
PLAIN.

Fig. 1534.



WITH RUBBER BUMPER.

Fig. 1535.



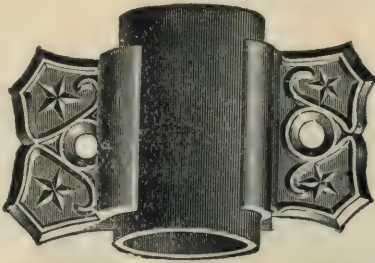
		Polished Brass.	Nickel Plated.
Fig. 1533. Plain Flush Pipe Stay.....Price each		25	30
" 1534. Plain Flush Strap for 1½ and 1½ Tube.....Price per doz.		1.95	2.00
" 1535. Strap with Rubber Bumper....." "		2.20	2.40

Flush Pipe Fittings.

Star Tacks or Straps for Lead Flush Pipe.

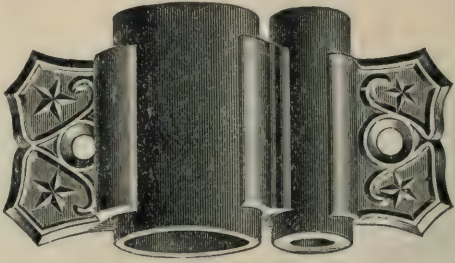
Flush Pipe Straps.

Fig. 1536.



Combination Flush and Supply Pipe Straps

Fig. 1537.



		Galvd.	N. Plated.
Fig. 1536.	For Lead 1 1/4 x 2 1/4 lb. to the Foot.....	1.75	3.60
" 1537.	Combination Flush and Supply 1 1/4 x 2 1/4 and 1/2 x 2 lb. "	3.65	7.00

Brass Supply Pipes and Fittings.

Supply Pipes. Supply Pipe Stays.

Supply Pipe Straps.

Fig. 1538. LONG PATTERN. SHORT PATTERN.

FOR BRASS PIPE. FOR LEAD AND IRON PIPE.



Fig. 1538.—Supply Pipes.

Size of Pipe, Iron Pipe Size.....	1/4	3/8	1/2	3/4
Polished Brass, 7 feet Long.....	2.25	3.00	4.25	5.25
N. Plated " 7 " "	2.50	3.25	4.50	5.50

Figs. 1539 and 1540.—Brass Supply Pipe Stays.

Size of Brass Pipe, Iron Pipe Size.....	1/4	3/8	1/2	3/4
Fig. 1539. Long Pattern, Brass, Finished, Price each	20	20	20	25
" " " " Brass, N. Plated "	25	25	25	30
" " " " Iron, Plain "	..	06	06	07
" " " " Galv'd .. "	..	12	12	14
" 1540. Short " Brass, Finished. "	18	18	18	22
" " " " Brass, N. Plated "	22	22	22	26
" " " " Iron, Plain "	..	05	05	06
" " " " Iron, Galvd.... "	..	10	10	12

Fig. 1541.—Straps for Brass Pipe.

Size for Brass Pipe, Iron Pipe Size.....	1/4	3/8	1/2
Finished Brass.....	1.00	1.00	1.15
Nickel Plated	1.00	1.00	1.15

Fig. 1542.—Star Straps.

Size of Lead or Iron Pipe.....	3/8	1/2
Galvanized Iron	1.45	1.45
Nickel Plated	3.15	3.15

Tank and Seat Brackets.

Fig. 1562.

Fig. 1563.

Fig. 1564.

Fig. 1565.



Fig. 1562.—Tank Brackets.

Tank or Seat.	No.	Size.		CAST IRON.—Rough.				BRASS.	
		Length. in.	Width. in.	Plain.	Japanned.	Galv'd.	N. Plated.	Polished.	N. Plated.
Tank	1	7 $\frac{1}{2}$	x 5 $\frac{1}{2}$	30	40	60	55	1.35	1.50
	2	9 $\frac{1}{4}$	x 7 $\frac{1}{4}$	40	50	80	65	1.50	1.65
	3	10 $\frac{1}{2}$	x 8 $\frac{1}{2}$	55	65	1.00	80	2.10	2.25
	4	11 $\frac{1}{4}$	x 9 $\frac{1}{4}$	65	75	1.25	1.00	2.50	2.75
	5	12	x 10	80	90	1.60	1.25	2.85	3.10
	6	13	x 10	1.10	1.20	2.00	1.50	3.25	3.50

Fig. 1563.—Tank and Seat Brackets.

Tank or Seat.	No.	Size.		CAST IRON.—Rough, per pair				BRASS.—Per pair.	
		Length. in.	Width. in.	Plain.	Japanned.	Galv'd.	N. Plated.	Polished.	N. Plated.
Tank	1	9 $\frac{1}{2}$	x 8	40	50	1.00	65	2.00	2.25
Tank or Seat.	2	7 $\frac{1}{2}$	x 5 $\frac{1}{2}$	35	45	80	60	1.35	1.60
Seat	3	5 $\frac{3}{4}$	x 4	25	30	60	45	.80	1.00

Fig. 1564.—Tank Brackets.

	Polished.	N. Plated.
Price per pair	2.00	2.25

Fig. 1565.—Tank Brackets.

	CAST IRON.—Rough.				BRASS.	
	Plain.	Japanned.	Galv'd.	N. Plated.	Polished.	N. Plated.
Size, 10 x 8 in.....Price per pair	40	50	1.00	65	2.50	3.00

Tank and Seat Brackets.

Fig. 1566.

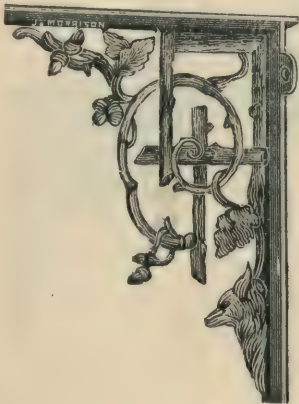


Fig. 1567.



Fig. 1568.



			CAST IRON.—Rough.			
			Plain.	Japanned	Galv'd.	N. Plated.
Fig. 1566.	13 in. x 10 in.	Price per pair	1.05	1.25	2.10	..
" 1567.	13 " x 9 "	" "	40	50	75	..
" 1568.	8½ " x 7 "	" "	25	35	40	50

Steel Brackets.

Brass Bracket.

Fig. 1569.

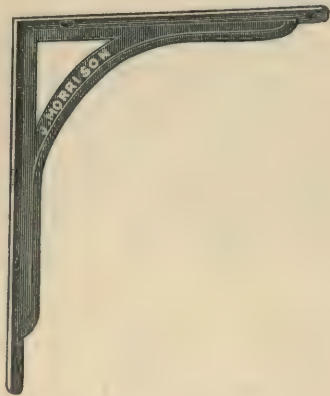


Fig. 1570.



Fig. 1571.



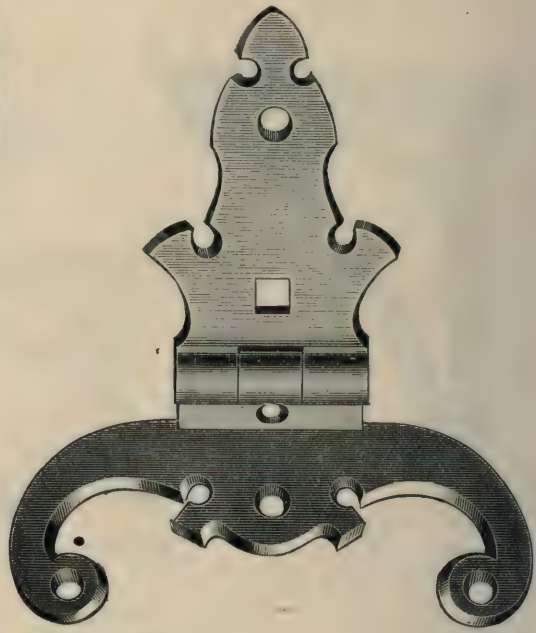
Fig. 1569.	7 in. x 5 in.,	Plain, Black Japanned Steel Bracket	Price per pair	20
" "	9 " x 7 "	" "	" "	25
" "	10 " x 8 "	" "	" "	33
" 1570.	7 " x 5 "	Plain Combination Japanned	" "	20
" "	9 " x 7 "	" "	" "	28
" "	10 " x 8 "	" "	" "	35
" 1571.	5½ " x 5½ "	Brass Brackets Polished	" "	70
" "	5½ " x 5½ "	" " Nickel Plated	" "	80

Closet Seat Hinges.

LARGE CAST BRASS HINGE.
Fig. 1579.

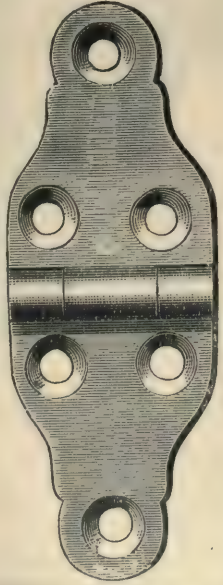


LARGE CAST BRASS ANGLE HINGE.
Fig. 1580.

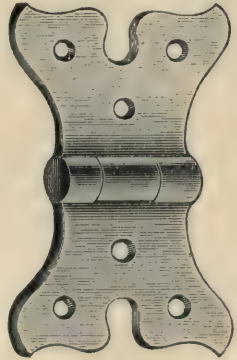


	Polished Brass.	Nickel Plated.
Fig. 1579. Ornamental Hinges.....Price per pair	1.70	2.00
" 1580. " " " " " "	1.70	2.00

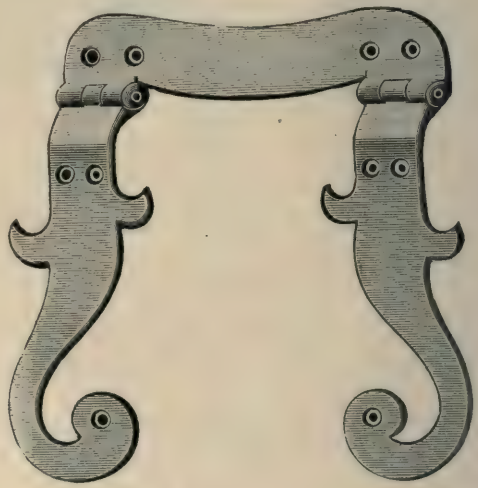
HEAVY CAST BRASS
HINGE.
Fig. 1581.



ORNAMENTAL CAST BRASS
HINGE.
Fig. 1582.



"PERFECTO" HINGES FOR SEAT
EXTENSION CLOSETS.
Fig. 1583.



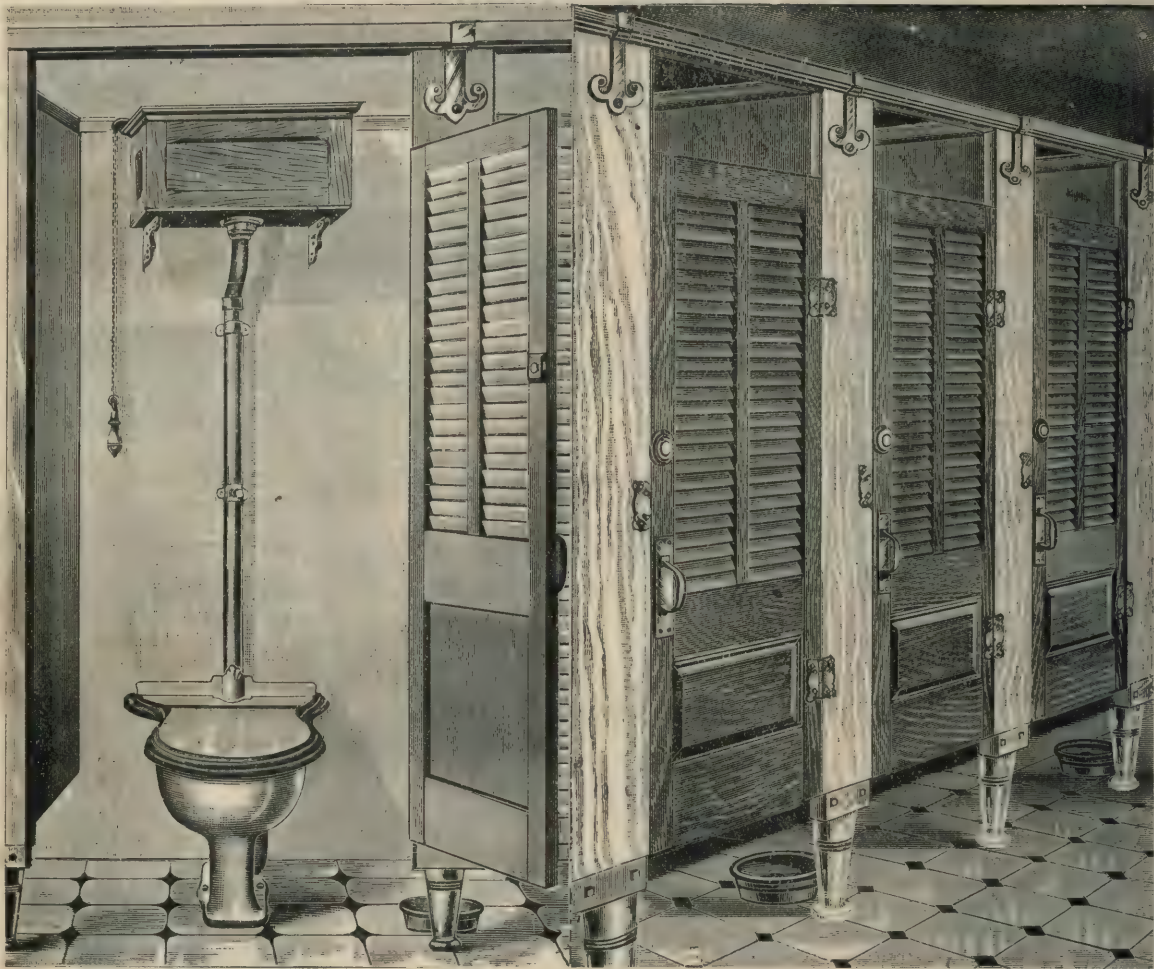
	Polished Brass	Nickel Plated
Fig. 1581. Plain, Heavy Cast Brass Hinge.....Price per pair	1.00	1.15
" 1582. Ornamental " " " " " "	1.00	1.15
" 1583. "Perfecto" Hinges..... " each	1.00	1.20

Range of Closet Stalls.

DOOR OPEN.

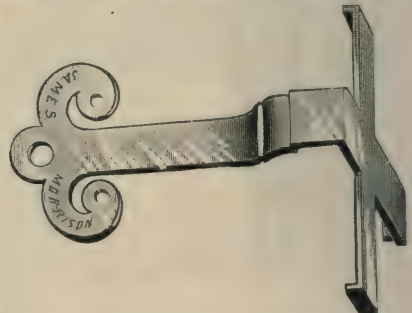
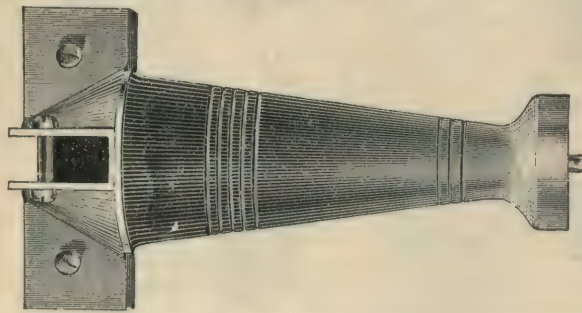
Fig. 1591.

DOORS CLOSED.



Closet Stall Legs. —Fig. 1592.

Closet Stall Top Clamp. —Fig. 1593.



For 2 in. Front x 1 1/4 in. Divisions						Right.	Left.	Centre.
Fig. 1592.	Closet Stall	Legs,	Polished Brass.....	Price each		8.50	8.50	9.50
"	"	"	"	"	N. Plated	9.00	9.00	10.00
"	"	"	"	"	C. I. Painted.....	3.00	3.00	3.40
"	"	"	"	"	"	Bronzed	3.50	4.00
"	"	"	"	"	"	Galv'd.....	4.50	5.00
Fig. 1593.	Closet Stall	Top Clamp,	Polished Brass.....	Price each				2.50
"	"	"	"	"	N. Plated			2.75

Fig. 1591 Illustrates Wood Work with Fittings attached.

**Self Acting, Frost-Proof
After Flush Closet.**

Fig. 1594.

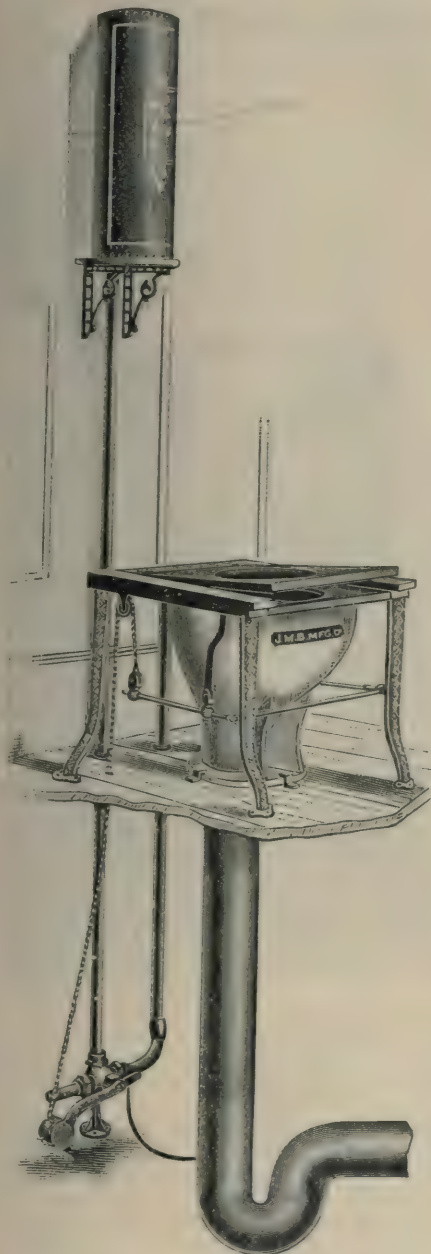
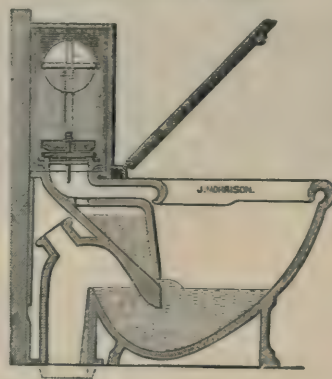
**Closets.****The "Victor" Wash Down
Closet.**

Fig. 1595.

**SECTIONAL VIEW OF THE "VICTOR"
WASH DOWN CLOSET.**

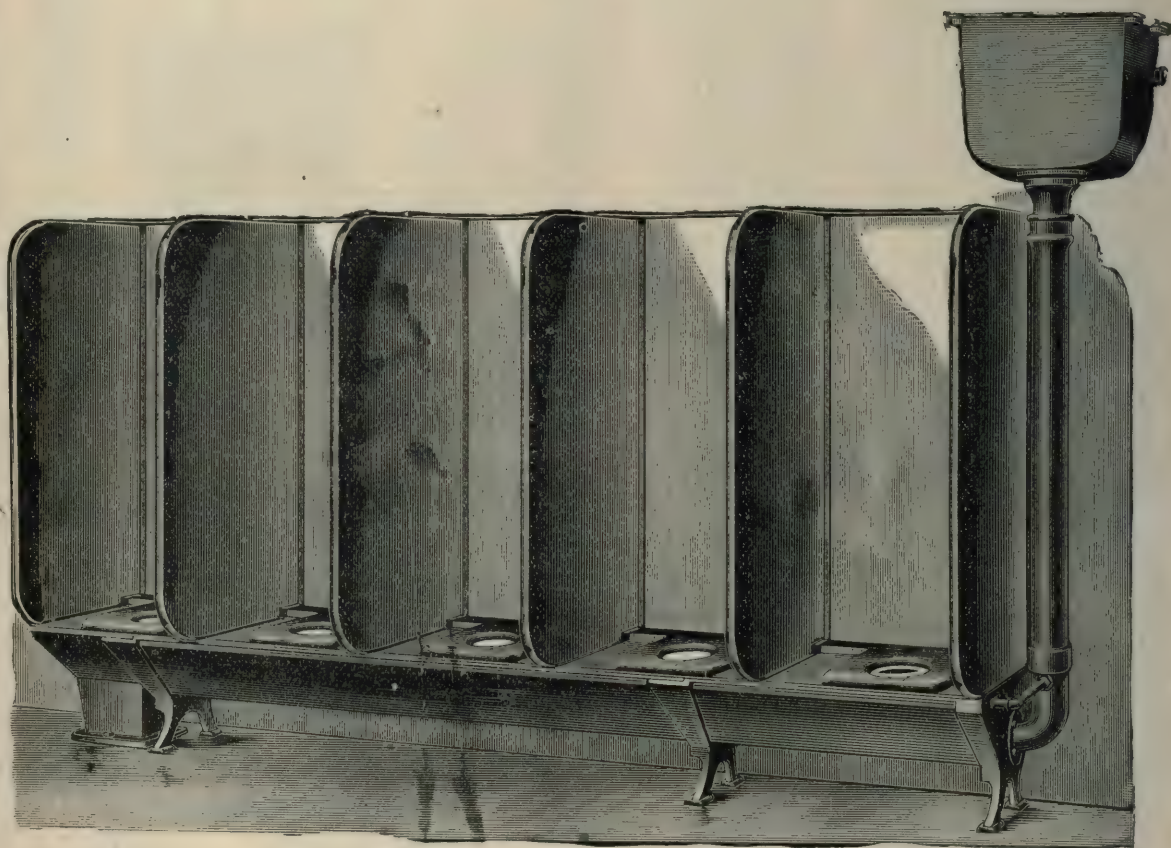
- | | | | |
|------------|--|------------|-------|
| Fig. 1594. | With Oval Flush Rim Hopper, Hardwood Seat, Enamelled Drip Tray, Galvanized Legs, Tank, and Brackets, Patent Hopper Cock, with Seat Attachment, Three Clamps, and 6 feet of Brass or Steel Chain, Plain Tank..... | Price each | 30.00 |
| Fig. 1595. | The "Victor" Wash Down Closet, with Copper Lined Tank, with "Birkery" Ball Cock, Oak or Cherry Casing and Seat, with N.Plated Casing Mountings..... | Price each | |

NOTE.—The "Victor" is the most noiseless Water Closet made. The Flushing Tank is connected with the Closet, and has a 4 inch Valve which Flushes in the shortest space of time. The "Victor" has no equal.

Closet Ranges for Factories and Schools.

With Automatic, or Ready Supply Flushing Cistern as may be Required.

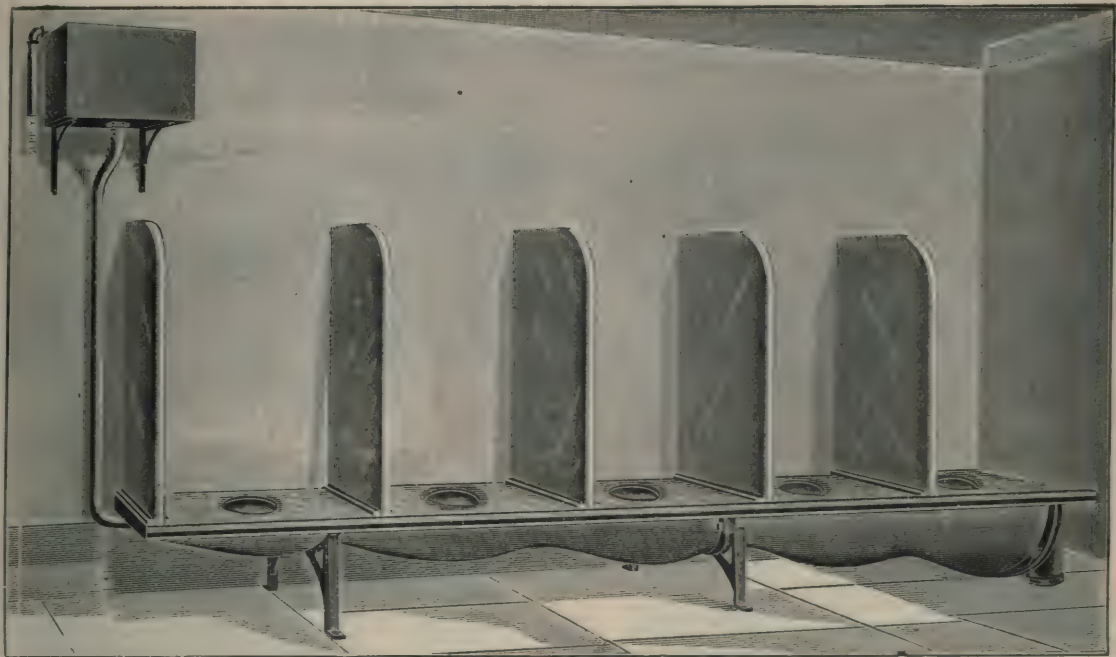
Fig. 1596.



DESCRIPTION.	Number of Seats.	Width of Seats Inches each.	Painted.	Galvanized.	Enameled.
Range with Painted Iron Flushing Cistern, or Wood Copper Lined, with Cast Iron Flush Pipes, less Partitions and Hardwood Seats.	2 Seats.	30 inches.	41.00	56.00	.....
	3 "	30 "	51.00	75.00	160.00
	4 "	30 "	66.00	99.00	190.00
	5 "	30 "	76.00	118.00	220.00
	6 "	30 "	90.00	141.00	255.00
	7 "	30 "	100.00	160.00	280.00
	8 "	30 "	110.00	179.00	310.00
Range with Painted Iron Flushing Cistern, or Wood Copper Lined, with Cast Iron Partitions, Cherry or Oak Seats and Iron Flush Pipes.	2 Seats.	30 inches.	65.50	80.50	.....
	3 "	30 "	84.50	108.50	193.50
	4 "	30 "	108.50	141.50	232.50
	5 "	30 "	127.50	169.50	271.50
	6 "	30 "	150.50	201.50	315.50
	7 "	30 "	169.50	229.50	349.50
	8 "	30 "	188.50	257.50	388.50

Closet Ranges for Factories and Schools.

The Parsons Closet Range.—Fig. 1597.

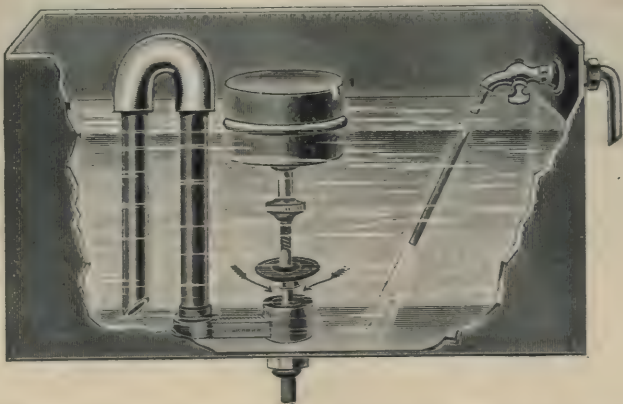


Section For	Distance Cent. to Cent.	Length over all	Price. Painted.	Price. Galv'd.	Price. Por. Lined.
2 Persons	27 in.	5 ft. 3 in.	67.00	.....	95.00
3 "	27 "	7 " 6 "	83.00	.....	120.00
4 "	27 "	9 " 9 "	100.00	.....	140.00
5 "	27 "	12 " 1 "	113.00	.....	170.00
6 "	27 "	14 " 4 "	128.00	.....	205 00

Price does not include Woodwork on the Closets.

Morrison's Improved Automatic Flushing Cistern for Closet Ranges.

Fig. 1598.



Number of Tank	9	10	11	12
Capacity in Imperial Gallons.....	15	20	25	30
Plain Pine Tank, Copper Lined	20.50	30.75	32.25	33.00

No. 9 has 2 inch Syphon, and Nos. 10, 11 and 12 have 3 inch Syphon.

Closet Flushing Tanks.

Copper Lined.

	Finished same Style as				
	Fig. 1605	Fig. 1606	Fig. 1607	Fig. 1609	Fig. 1610
17 x 8 x 10 Fitted with No. 1 Syphon Valve, Price each	5.00	5.25	5.40	5.50	6.25
17 x 8 x 10 " " 2 " " "	5.25	5.50	5.65	5.75	6.50
17 x 8 x 10 " " 3 " " "	6.25	6.75	6.90	7.00	7.75
17 x 8 x 10 " " 4 " " "	5.75	6.25	6.35	6.45	7.25
17 x 8 x 10 " " 4½ " " "	6.00	6.50	6.60	6.70	7.50
17 x 8 x 10 " Nos 5 or 6 Ready Supply Valve "	5.00	5.50	5.65	5.75	6.50
17 x 8 x 10 " No. 9 Refill " "	6.25	6.75	6.85	7.00	7.75
20 x 9 x 10 " with No. 2 Syphon " "	5.60	6.10	6.20	6.30	7.10
20 x 9 x 10 " " 3 " " "	6.85	7.35	7.50	7.60	8.35
20 x 9 x 10 " " 4 " " "	6.30	6.75	6.85	7.00	7.75
20 x 9 x 10 " " 4½ " " "	6.50	7.00	7.10	7.20	8.00
20 x 9 x 10 " Nos.5 or 6 Ready Supply Valve "	5.60	6.10	6.20	6.30	7.10
20 x 9 x 10 " No. 9 Refill " "	7.00	7.28	7.35	7.50	8.25
20 x 9 x 10 " " 3½ Syphon Valve } for Aut. Seat Attachment }	8.00	8.50	8.75	8.75	9.50
23 x 11 x 10 " with No. 2 Syphon Valve "	6.25	6.85	7.00	7.10	7.85
23 x 11 x 10 " " 3 " " "	7.50	8.10	8.25	8.25	9.00
23 x 11 x 10 " " 3½ Syphon Valve } for Aut. Seat Attachment }	8.50	9.00	9.25	9.25	10.00
23 x 11 x 10 " " 4 Syphon Valve "	7.00	7.50	7.70	7.70	8.50
23 x 11 x 10 " " 4½ " " "	7.25	7.75	8.00	8.00	8.75
23 x 11 x 10 " Nos.5 or 6 Ready Supply " "	6.25	6.85	7.00	7.00	7.75
23 x 11 x 10 " No. 9 Refill " "	7.50	8.00	8.25	8.25	9.00
23 x 11 x 10 " " 25 " " "	11.00	11.70	11.80	11.80	12.60
23 x 11 x 10 " " 25½ " " "	10.00	10.70	10.80	10.80	11.60

NOTE.—Pulls and Brackets are not included in above Prices.

Tank Boards.

Fig. 1611.



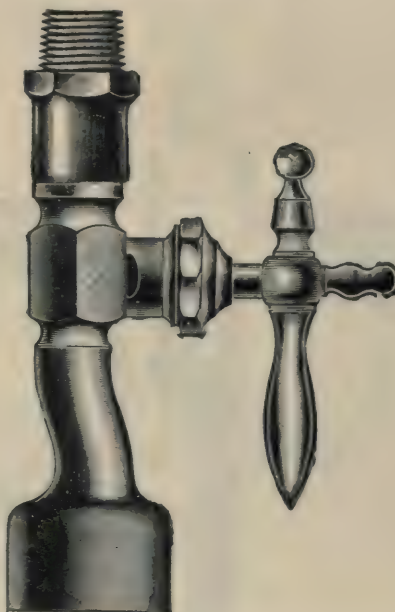
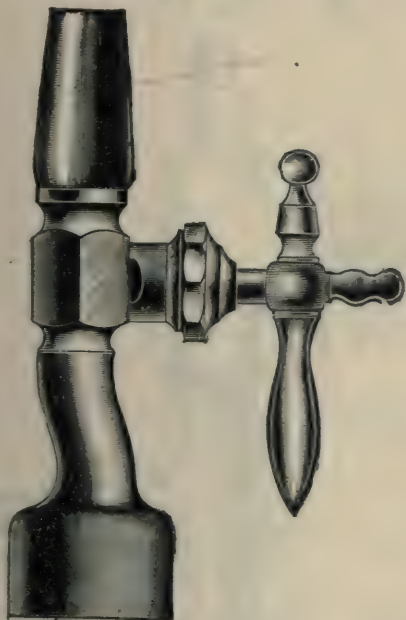
Tank Boards	No. 1.	For Tanks 17 x 8 x 10	Price each	1.75
Oak	" 2.	" 20 x 9 x 10	"	1.90
or Cherry.	" 3.	" 23 x 11 x 10	"	2.20

Urinal and Urinal Stall Fittings of every Description of the Latest and Most Approved Styles.

Improved Fuller's Urinal Cocks.

FOR LEAD PIPE.
Fig. 1612.

FOR IRON PIPE.
Fig. 1613.

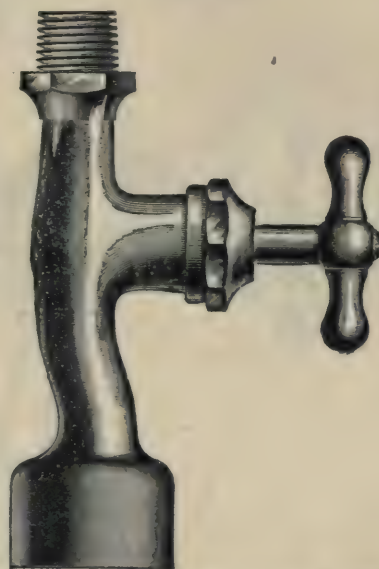
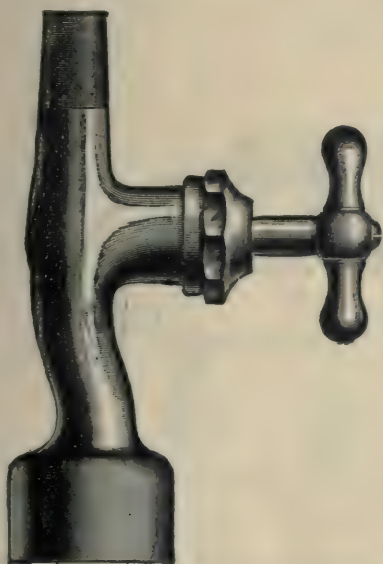


		Polished Brass	N. Plated
Fig. 1612.	For Lead Pipe, $\frac{1}{2}$ inch.....	27.00	29.50
" 1613.	For Iron Pipe $\frac{1}{2}$ "	30.00	32.50

Compression Urinal Cocks.

FOR LEAD PIPE.
Fig. 1614.

FOR IRON PIPE.
Fig. 1615.



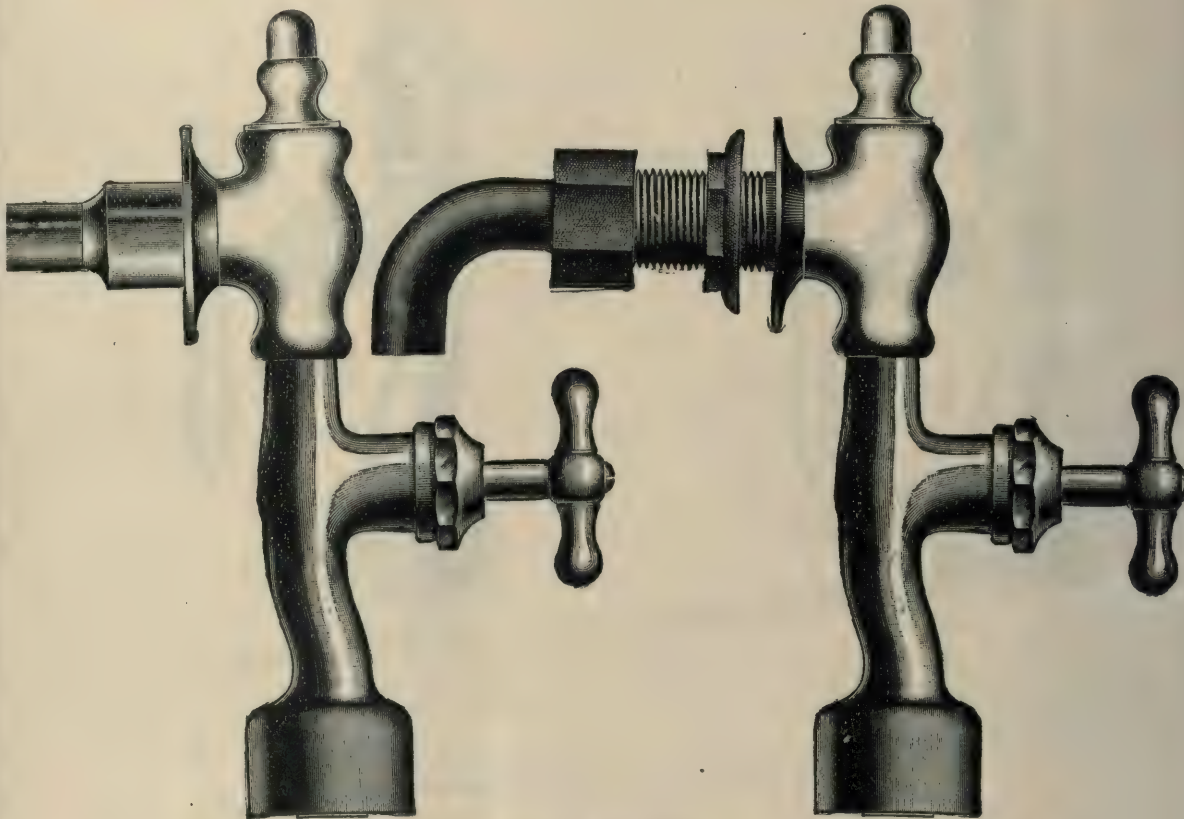
		Polished Brass	N. Plated.
Fig. 1614.	For Lead Pipe $\frac{1}{2}$ inch.....	18.00	21.00
" 1615.	For Iron Pipe $\frac{1}{2}$ "	19.00	22.00

Compression Urinal Cocks.

Long Pattern.

WITH FLANGE AND THIMBLE.
Fig. 1616.

WITH FLANGE NUT AND BENT COUPLING.
Fig. 1617.



Short Pattern.

WITH FLANGE NUT AND BENT COUPLING.
Fig. 1618.

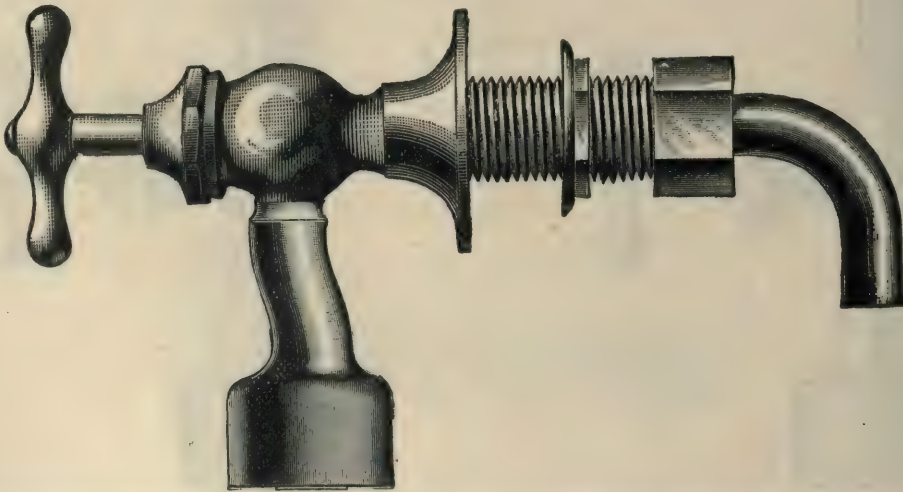
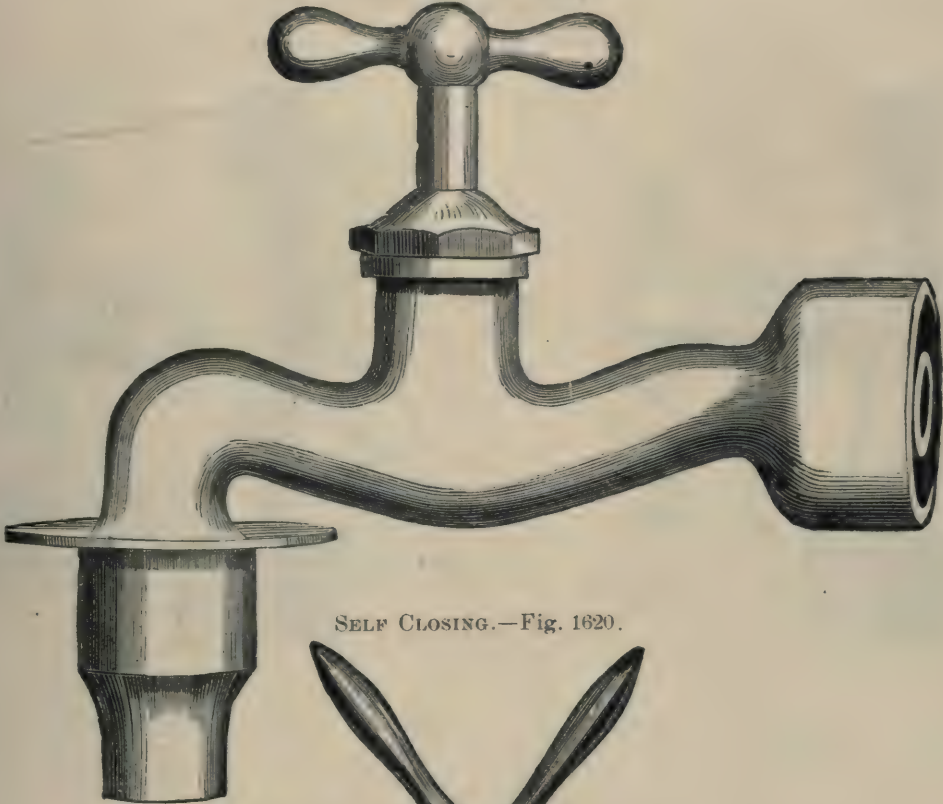


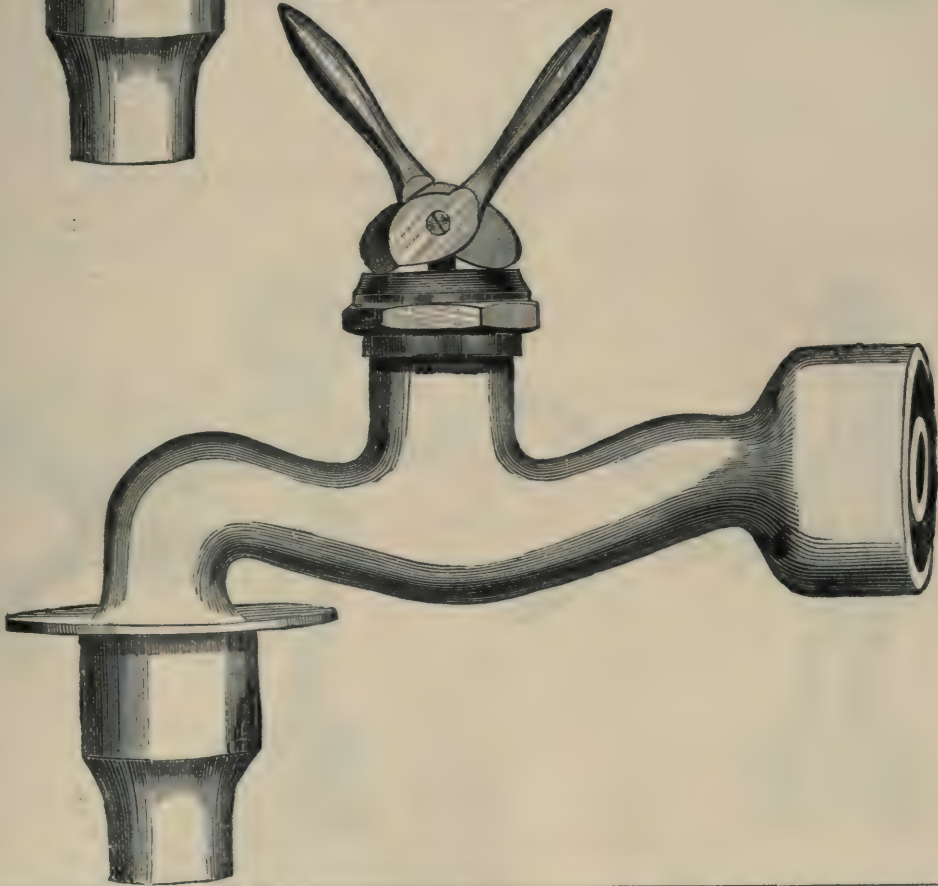
	Fig 1616.	Fig. 1617.	Fig. 1618.
Polished Brass.....Price per dozen	54.00	60.00	39.00
Nickel Plated....." "	60.00	66.00	44.00

Compression Urinal Cocks.
Flange and Thimble.

Fig. 1619.



SELF CLOSING.—Fig. 1620.

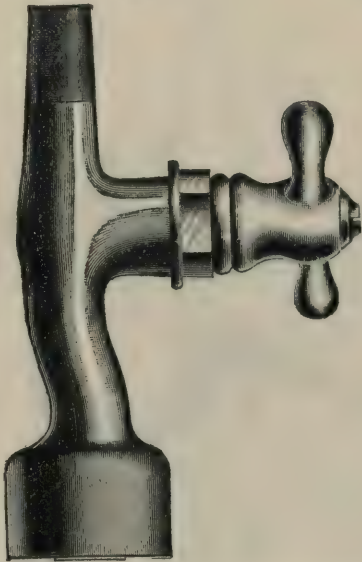


		Polished Brass	N. Plated.
Fig. 1619.	T Handle, $\frac{1}{2}$ inch.....	27.00	33.00
" 1620.	Self Closing, $\frac{1}{2}$ inch.....	42.00	48.00
Price per dozen			

Self Closing Urinal Cocks.

Boston Pattern.

FOR LEAD PIPE.
Fig. 1621.



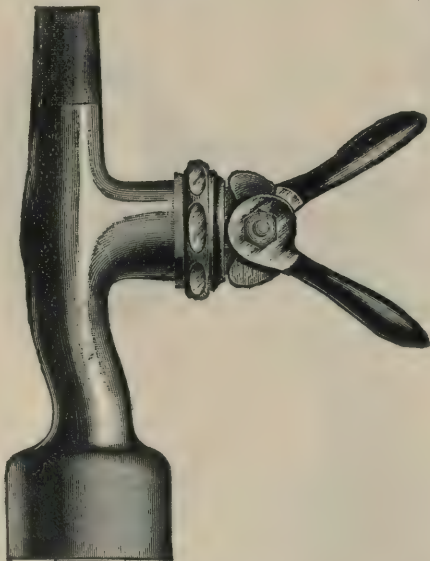
FOR IRON PIPE.
Fig. 1622.



		Pol. Brass.	N. Plated.
Fig. 1621.	For Lead Pipe, $\frac{1}{2}$ inch.....	32.00	35.00
" 1622.	For Iron Pipe, $\frac{1}{2}$ inch.....	33.00	36.00

Self Closing Urinal Cocks, Double Lever.

FOR LEAD PIPE.
Fig. 1623.



FOR IRON PIPE.
Fig. 1624.



		Pol. Brass.	N. Plated.
Fig. 1623.	For Lead Pipe, $\frac{1}{2}$ inch.....	32.00	35.00
" 1624.	For Iron Pipe, $\frac{1}{2}$ inch.....	33.00	36.00

Urinal Fittings.

Inlets.

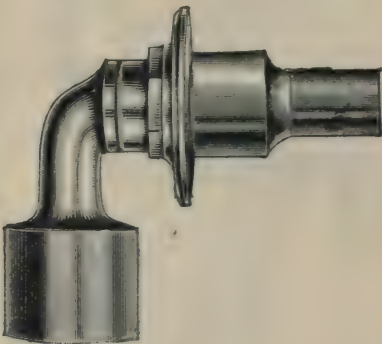
FOR LEAD PIPE.
Fig. 1625.



FOR IRON PIPE:
Fig. 1626.



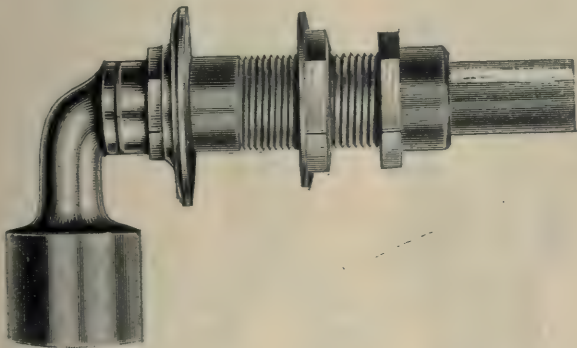
WITH FLANGE AND THIMBLE.
Fig. 1627.



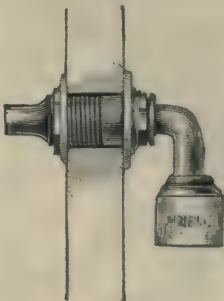
	Pol. Brass.	N. Plated.
Fig. 1625. Inlet for Lead Pipe .....	.75	1.00
" 1626. Inlet for Iron Pipe.....	.75	1.00
" 1627. Inlet with Flange and Thimble.....	2.00	2.50

Inlets.

WITH FLANGE NUT AND STRAIGHT OR
BENT COUPLING.
Fig. 1628.



WITH FLANGE AND THIMBLE AND
ADJUSTABLE INLET.
Fig. 1629.

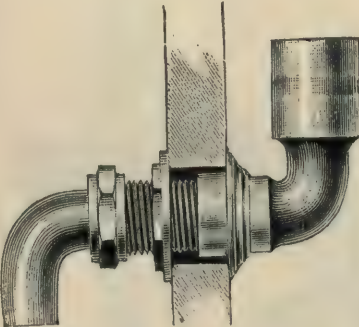


	Pol. Brass.	N. Plated.
Fig. 1628. Flange Nut and Coupling.....	3.00	3.50
" 1629. Flange and Thimble, Adjustable.....	3.00	3.50

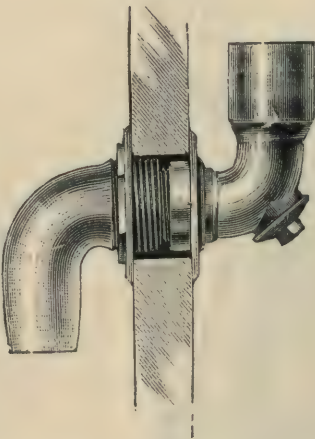
Fig. 1629 is provided with a Slip Joint which allows of Adjustment to Cover any Irregularity in Wall or Earthenware.

Urinal Fittings.

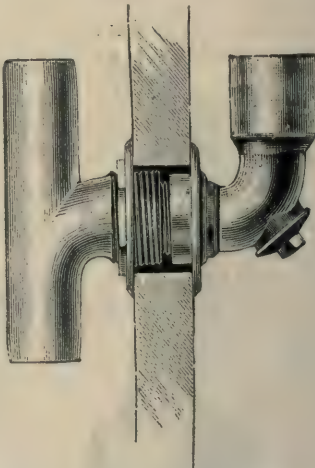
WITH FLANGE NUT AND
BENT COUPLING.
Fig. 1630.



Outlet Connections.
WITH CLEAN-OUT SCREW AND
BENT COUPLING.
Fig. 1631.



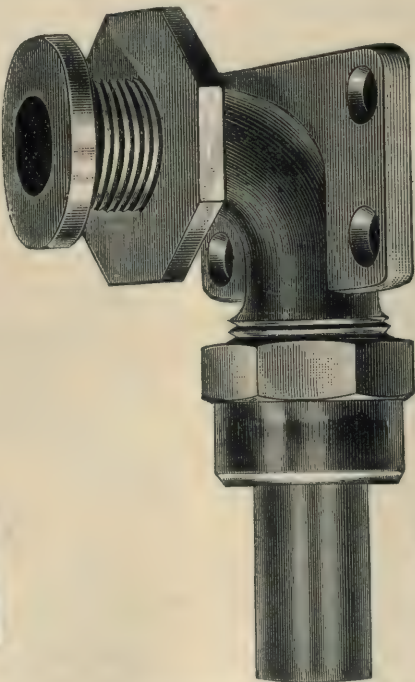
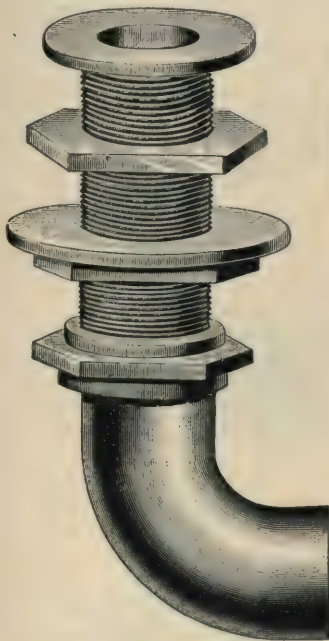
WITH CLEAN-OUT SCREW AND
T CONNECTION.
Fig. 1632.



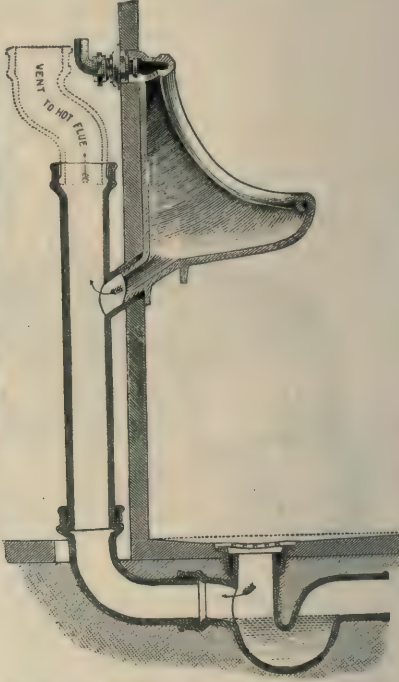
		Pol. Brass.	N. Plated.
Fig. 1630.	Flange Nut and Coupling.....	3.25	3.75
" 1631.	With Clean-out and Bent Coupling.....	3.50	4.00
" 1632.	" " " T Connection	4.00	4.50

Stevens' Urinal Fittings.

INLET FOR SLATE OR MARBLE SLAB. INLET FOR WOOD PARTITION.
Fig. 1633. Fig. 1634.



OUTLET AND VENT FITTINGS.
Fig. 1635.

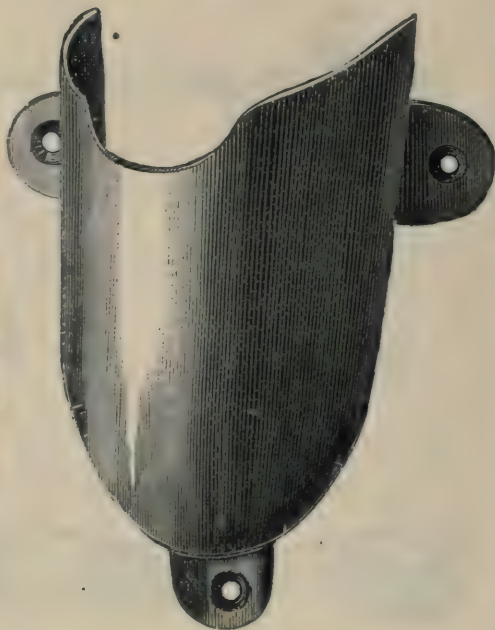


		SIZE.		
		Rough.	3 inch.	4 inch.
Fig. 1633.	Inlet for Slate or Marble Slab.....	1.50	....	....
" 1634.	Inlet for Wood Partition.....	1.13	....	....
" 1635.	C.I.Outlet and Vent Connection, Porcelain } Lined, Including Grating for Floor .....	....	13.50	15.00
		Per Sett		

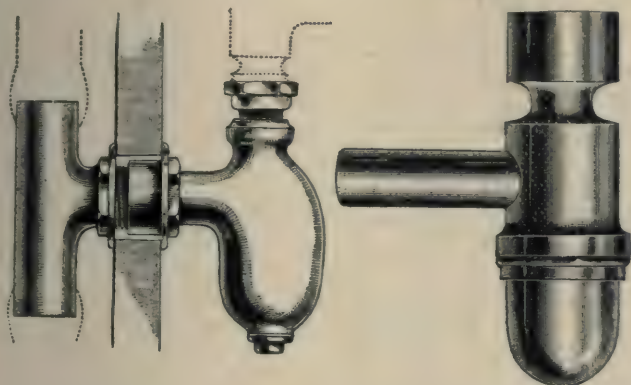
Urinal Fittings.

Urinal Shield.

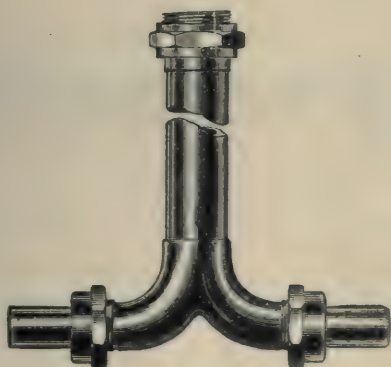
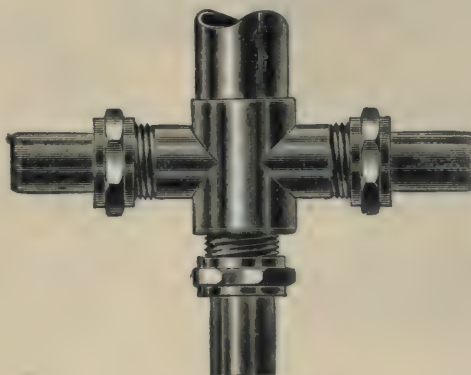
Fig. 1638.



Traps.

THE "GEM" URINAL TRAP.
Fig. 1636.MORRISON'S PATENT
URINAL TRAP.
Fig. 1637.

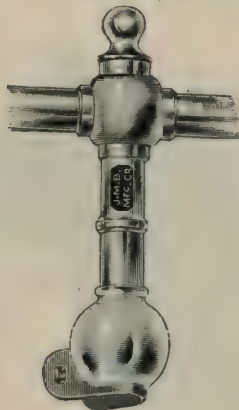
Couplings for Automatic Flush Tanks.

DOUBLE.
Fig. 1639.TRIPLE,
Fig. 1640.

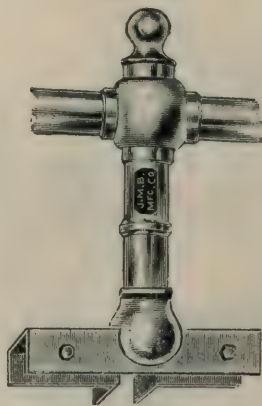
	Pol. Brass.	N. Plated.
Fig. 1636. "Gem" Urinal Trap with T. connection.....	Price each	5.75
" 1637. Morrison's Patent with Straight or Bent Coupling	"	6.50
" 1638. Urinal Shields, Top and Bottom.....	" per lb	3.50
" 1639. Double Coupling for Automatic Flush Tanks.....	" each	.60
" 1640. Triple	"	1.25
"	"	1.75
"	"	2.25
"	"	2.75

Urinal Stall Fittings.

BRASS PILLAR FOR TOP OF
PARTITION.
Height 12 inches, 1½ Tube.
Fig. 1641.



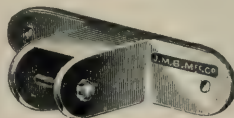
BRASS PILLAR WITH TOP
CENTRE CLAMP.
Fig. 1642.



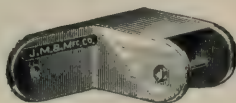
PARTITION STANDARD.
Height 7 inches.
Fig. 1643.



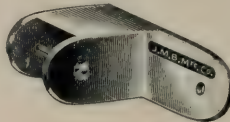
CLAMP FOR CENTRE
PARTITION.
Fig. 1644.



CLAMP FOR LEFT HAND
PARTITION.
Fig. 1645.



CLAMP FOR RT. HAND
PARTITION.
Fig. 1646.



ANGLE CLAMP.
Fig. 1647.

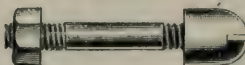


URINAL EAR CLAMP.
Fig. 1648.

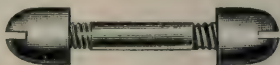


STALL BOLTS.
Fig. 1649.

No. 1.



No. 2.



WALL ANCHOR.
Fig. 1650.



			Pol. Brass.	Nickel Plated
1½ Brass Tube		Price per foot	60	70
Fig. 1641. Pillar { Right		Price each	3.20	3.50
" 1642. " { Left		"	3.20	3.50
" 1643. Standard		"	3.50	4.00
" 1644. Centre Clamp		"	2.00	2.30
" 1645. Left Hand		"	90	1.00
" 1646. Right Hand		"	70	80
" 1647. Angle Clamp		"	70	80
" 1648. Urinal "		"	40	45
" 1649. Stall Bolts { No. 1		"	70	80
" " { No. 2		"	15	20
" 1650. Wall Anchor		"	20	25
		"	60	70

Urinal Stall Fittings.

Brass and Galvanized Iron Flush Pipes.

PERFORATED.

Fig. 1651.

WITH BRASS TITS.

Fig. 1652.



Distance Centre to Centre of Perforations, and Tits, Inches		1	1½	2	2½	3
Fig. 1651.	¾ in. Brass Pipe, Iron Pipe size, Perforated, per ft.	66	62	58	56	54
"	" 1 in. " " " " " " " "	95	90	86	84	82
"	" 1½ in. " " " " " " " "	1.15	1.10	1.06	1.04	1.02
Fig. 1652.	¾ in. Brass Pipe, Iron Pipe size, with Tits, "	....	1.10	1.00	90	85
"	" 1 in. " " " " " " " "	....	1.40	1.25	1.15	1.10
"	" 1½ in. " " " " " " " "	....	1.60	1.50	1.35	1.30
Fig. 1651.	¾ in. Galvanized Iron Pipe, Perforated....	33	26	23	20	18
"	" 1 in. " " " " " " " "	36	29	26	23	21
"	" 1½ in. " " " " " " " "	42	35	32	29	27
Fig. 1652.	¾ in. Galvanized Iron Pipe, with Brass Tits, "	....	85	66	60	55
"	" 1 in. " " " " " " " "	....	90	70	65	60
"	" 1½ in. " " " " " " " "	....	95	75	70	65

Gratings.

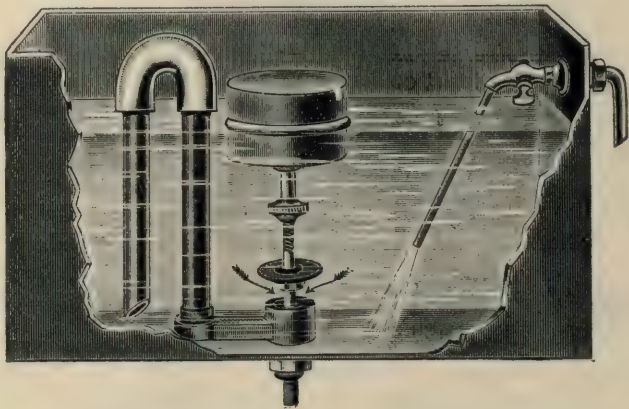
PLAIN.
Fig. 1653.FOR LEAD PIPE.
Fig. 1654.FOR SOIL PIPES.
Fig. 1655.

Size, inches.....		1½	2	2½	3	4	5	6
Fig. 1653, Plain	Finished.....	15	20	25	35	45	75	1.00
	Nickel Plated " "	20	25	30	40	55	85	1.15
Fig. 1654. For Lead Pipe....	Finished....	25	30	40	45	75	1.00	1.50
	Nickel Plated " "	30	35	45	50	85	1.20	1.75
Fig. 1655. For C. I. Soil Pipe	Finished....		50		80	1.35	2.00	3.50
	Nickel Plated " "		55		90	1.50	2.25	3.75

Automatic Flushing Cisterns for Urinals.

The "Morrison's" Improved Automatic Flushing Cistern.

Fig. 1656.



Number	1	2	3	4	5	6	7
Capacity in Imperial Gallons.....	1	2	3	4	5	8	10
Plain Pine Tank .....Price each	12.00	12.75	13.50	14.50	17.00	20.00	24.00
Oak or Cherry, Finished Tank.. “	13.50	14.50	15.50	17.00	19.50	23.00	27.00

The attention of Architects, and the Plumbing Trade is especially called to the "Morrison's" Improved Automatic Flushing Tank, for Urinals, Etc.

The Improvements which we claim for this Tank are:—

FIRST.—The Regulating Screw on the Float Spindle, by which the Quantity of Water given off at each discharge can be reduced or increased at pleasure. This is a feature which is not embraced in any other Automatic Flushing Tank on the Market.

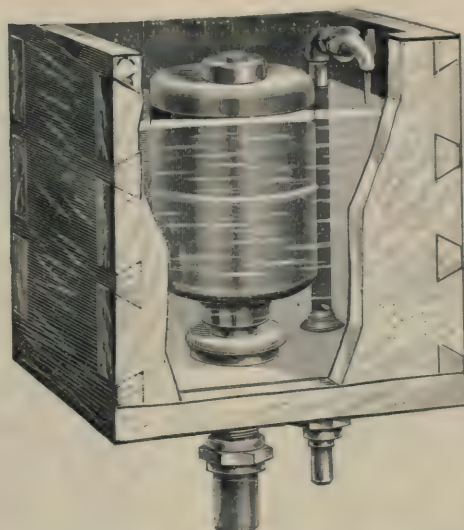
SECOND.—That the Dimensions, Weights, Etc. of the Valves and Floats have been determined by actual Experiment, and by which the best results are obtained in operation.

The Syphonic Action is perfect, and the Syphon is charged by the operation of a natural law which is not dependent upon any Mechanical Device. Thus, when the Valve is closed, the Float has to raise in addition to the weight of the Valve, Spindle, Etc., a weight equal to the height of the column of Water above the Valve, multiplied by the area of the Valve. The instant that the Valve is raised from the Seat, it is relieved of the weight of the column of Water, and the Float instantly rises in the Water, increasing the distance between the Valve and its Seat. It is clear that a quantity of Water equal in depth to the distance the Valve has risen, must be discharged before the Valve can close. The amount of Water discharged in this way is sufficient to fill the Flush Pipe, and start the Syphon, thus the Tank is filled and emptied with unerring regularity, and failure in operation is impossible.

The Demarest Automatic Flushing Tank.

WOOD, COPPER LINED.

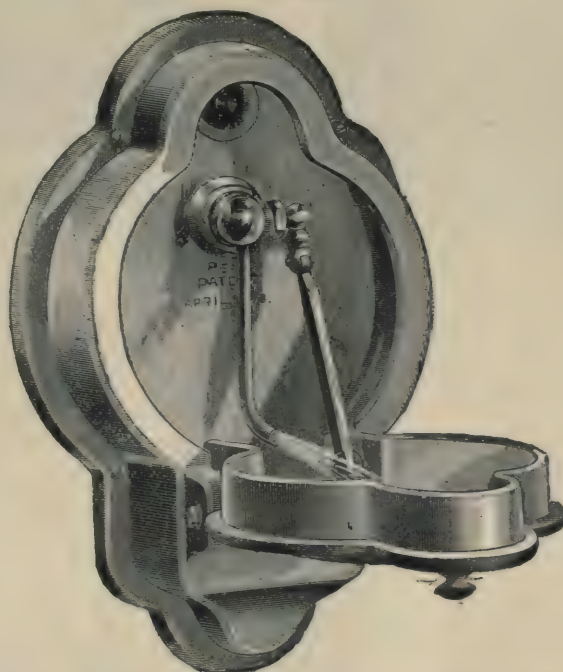
Fig. 1657.



Number of Tank.....	1	2	3	4	5	6	7
Capacity in Imperial Gallons.....	1	2	3	4	5	8	10
Plain Pine Tank.....Price each	12.00	14.00	16.00	18.00	20.00	24.00	26.00
Oak or Cherry, Finished Tank. “	14.00	16.00	18.00	21.00	23.00	26.00	29.00

Patent Folding Porcelain Urinals.

Fig. 1658.



	White Porcelain.	Gold Lines.	Heliotrope.	Chinese Peony.	Birds and Flowers.
Folding Lip Urinal, with Nickel Plated Fittings..Price each	23.00	27.00	28.00	28.00	30.00

Urinals.

WITH COMPRESSION INLET COCK.
Fig. 1659.



WITH AUTOMATIC FLUSH TANK.
Fig. 1660.



Fig. 1659.

Number of Urinals.....	1	2	3	4
With Steven's Urinals, Compression Inlet Cock, Brass Ears, 3 in. Outlet Fittings, Porcelain Lined, (see Fig. 1635) Brass Clamps, and centre supporting Legs, all Nickel Plated.....	32.00	67.00	101.50	136.00

Fig. 1660.

Number of Urinals.....	1	2	3	4
With Steven's Urinals, Morrison's Improved Automatic Flush Tank, with Brackets, Inlet, and 3 in. Outlet, Porcelain Lined Fittings, (see Fig. 1635.) Brass Clamps, and Centre Partition Legs, all Nickel Plated.....	45.50	82.00	118.00	155.00

NOTE.—The above are the Prices of Urinals and Fittings only. For Dimensions and Prices of Slate Urinal Stalls, see page 479 where Stalls are fully detailed.

Urinals.

WITH COMPRESSION URINAL COCK.
Fig. 1661.



WITH AUTOMATIC FLUSHING TANK.
Fig. 1662.



Fig. 1661.

Number of Urinals.....	1	2	3	4
With Medium Flat Back Lipped Urinal, Compression Urinal Cock, Brass Outlet, Ear Bolts, Brass Clamps, and Legs for Middle Partition, all Nickel Plated.....Price each	18.00	37.00	57.00	77.00

Fig. 1662.

Number of Urinals.....	1	2	3	4
With Medium Flat Back Lipped Urinal, Morrison's Im- proved Automatic Flushing Tank with Brackets, Ear Bolts, Outlet, Clamps, and Legs for Middle Partition, all Nickel Plated .....Prices each	27.00	44.00	62.00	82.00

NOTE.—The above are the Prices of Urinals and Fittings only. For Dimensions and Prices of Slate Urinal Stalls, see page 479, where Stalls are fully detailed.

Urinals.

WITH COMPRESSION URINAL COCK.
Fig. 1663.



WITH AUTOMATIC FLUSH TANK.
Fig. 1664.



Fig. 1663.

Number of Urinals.....	1	2	3	4
With Medium Flat Back Lipped Urinals, Compression Urinal Cock, Ear Bolts, Gem Traps. Top and Angle Clamps for Slabs, and Centre Partition Legs, all Nickel Plated.....Price each	19.00	40.00	61.00	82.00

Fig. 1664.

Number of Urinals.....	1	2	3	4
With Medium Flat Back Lipped Urinals, Morrison's Improved Automatic Flushing Tank, Inlet Connection, Gem Traps, Ear Bolts, Top and Angle Clamps for Stalls, and Centre Partition Legs, all Nickel Plated.....Price each	32.00	55.00	77.00	101.00

NOTE.—The above are the Prices of Urinals and Fittings only. For Dimensions and Prices of Slate Urinal Stalls, see page 479, where Stalls are fully detailed.

Slate Slabs for Urinal Stalls.

Backs Finished on one Side ; Ends Finished on one or both Sides and Front Edge ; Middle Partitions Finished on both Sides and Front Edge : Floor Slabs Finished on Top Side, Channeled on Ends and Back Edge to receive Ends and Backs ; Countersunk and Grating Holes cut to specifications.

DIMENSIONS OF STALLS.

Number of Urinal.....	No. 1.	No. 2.	No. 3.
Height of Stalls.....	5 feet 6 inches	5 feet 6 inches	5 feet 6 inches
Width Inside.....	2 " 2 "	2 " 4 "	2 " 6 "
Depth of End Slabs.....	2 " 4 "	2 " 4 "	2 " 6 "
Depth of Middle Partitions.....	1 " 8 "	1 " 8 "	1 " 10 "
Backs, Ends and Middle Partitions..... thick	1 or 1 $\frac{1}{4}$ "	1 or 1 $\frac{1}{4}$ "	1 or 1 $\frac{1}{4}$ "
Floor Slabs.....	1 $\frac{1}{4}$, 1 $\frac{1}{2}$ or 2	1 $\frac{1}{4}$, 1 $\frac{1}{2}$ or 2	1 $\frac{1}{4}$, 1 $\frac{1}{2}$ or 2

No. 1 Urinal.

Number of Stalls.....	1	2	3	4
Backs, Ends and Mid- dle Partitions 1 in. { 1 $\frac{1}{4}$ inch Floor Slab...Price each	27.50	44.50	61.50	78.50
thick, .....with { 1 $\frac{1}{2}$ " " " " "	28.50	46.25	64.00	82.00
Backs, Ends and Mid- dle Partitions 1 $\frac{1}{4}$ in. { 2 " " " " "	30.00	49.50	69.00	88.50
thick, .....with { 1 $\frac{1}{4}$ " " " " "	33.25	53.50	74.00	94.00
Backs, Ends and Mid- dle Partitions 1 $\frac{1}{2}$ in. { 1 $\frac{1}{2}$ " " " " "	34.50	55.00	76.25	97.50
thick, .....with { 2 " " " " "	36.00	58.50	81.25	104.00

No. 2 Urinal.

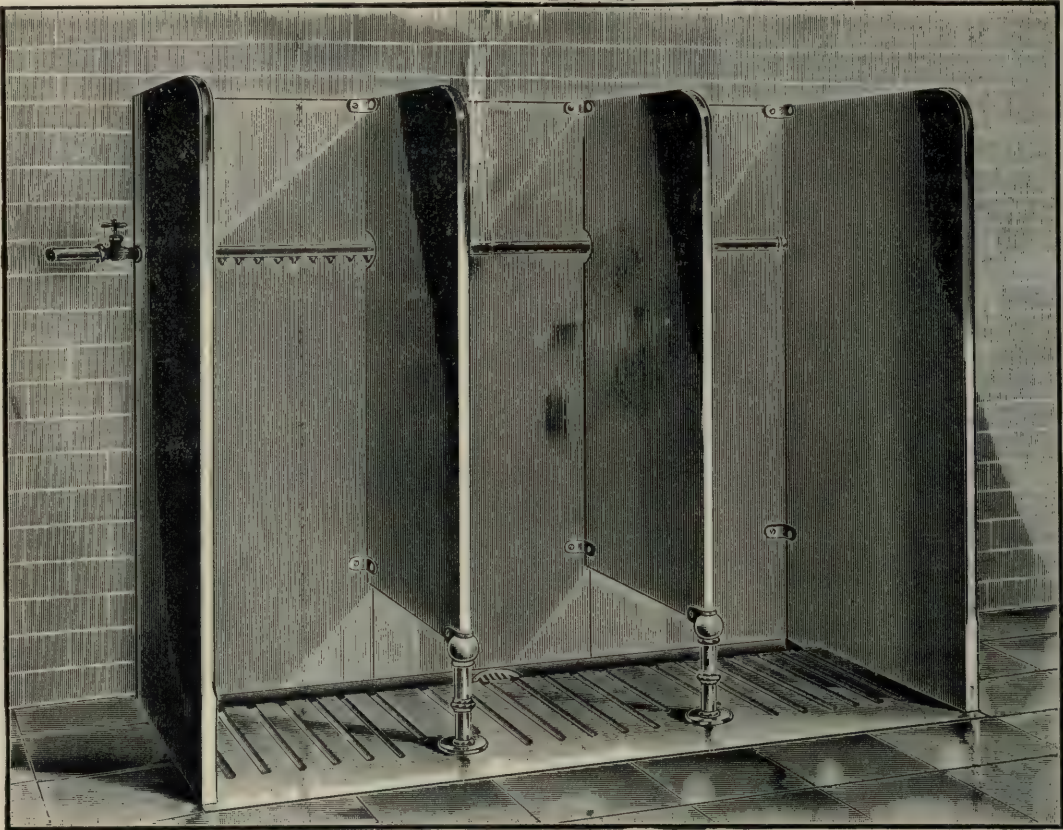
Number of Stalls.....	1	2	3	4
Backs, Ends and Mid- dle Partitions 1 in. { 1 $\frac{1}{4}$ inch Floor Slab...Price each	28.50	46.25	64.00	82.00
thick, .....with { 1 $\frac{1}{2}$ " " " " "	29.50	48.00	66.75	85.50
Backs, Ends and Mid- dle Partitions 1 $\frac{1}{4}$ in. { 2 " " " " "	31.00	51.75	72.00	92.50
thick, .....with { 1 $\frac{1}{4}$ " " " " "	34.25	55.50	77.00	98.00
Backs, Ends and Mid- dle Partitions 1 $\frac{1}{2}$ in. { 1 $\frac{1}{2}$ " " " " "	35.25	57.25	79.50	101.50
thick, .....with { 2 " " " " "	37.00	61.00	84.75	108.00

No. 3 Urinal.

Number of Stalls.....	1	2	3	4
Backs, Ends and Mid- dle Partitions 1 in. { 1 $\frac{1}{4}$ inch Floor Slab...Price each	30.50	50.25	69.75	89.50
thick, .....with { 1 $\frac{1}{2}$ " " " " "	31.75	52.25	72.75	93.50
Backs, Ends and Mid- dle Partitions 1 $\frac{1}{4}$ in. { 2 " " " " "	33.75	56.25	79.00	101.50
thick, .....with { 1 $\frac{1}{4}$ " " " " "	37.00	60.25	83.50	106.75
Backs, Ends and Mid- dle Partitions 1 $\frac{1}{2}$ in. { 1 $\frac{1}{2}$ " " " " "	38.00	62.25	86.50	110.75
thick, .....with { 2 " " " " "	40.00	66.25	92.50	118.75

Slate Urinals for Factories, Schools, Etc.

Fig. 1665.



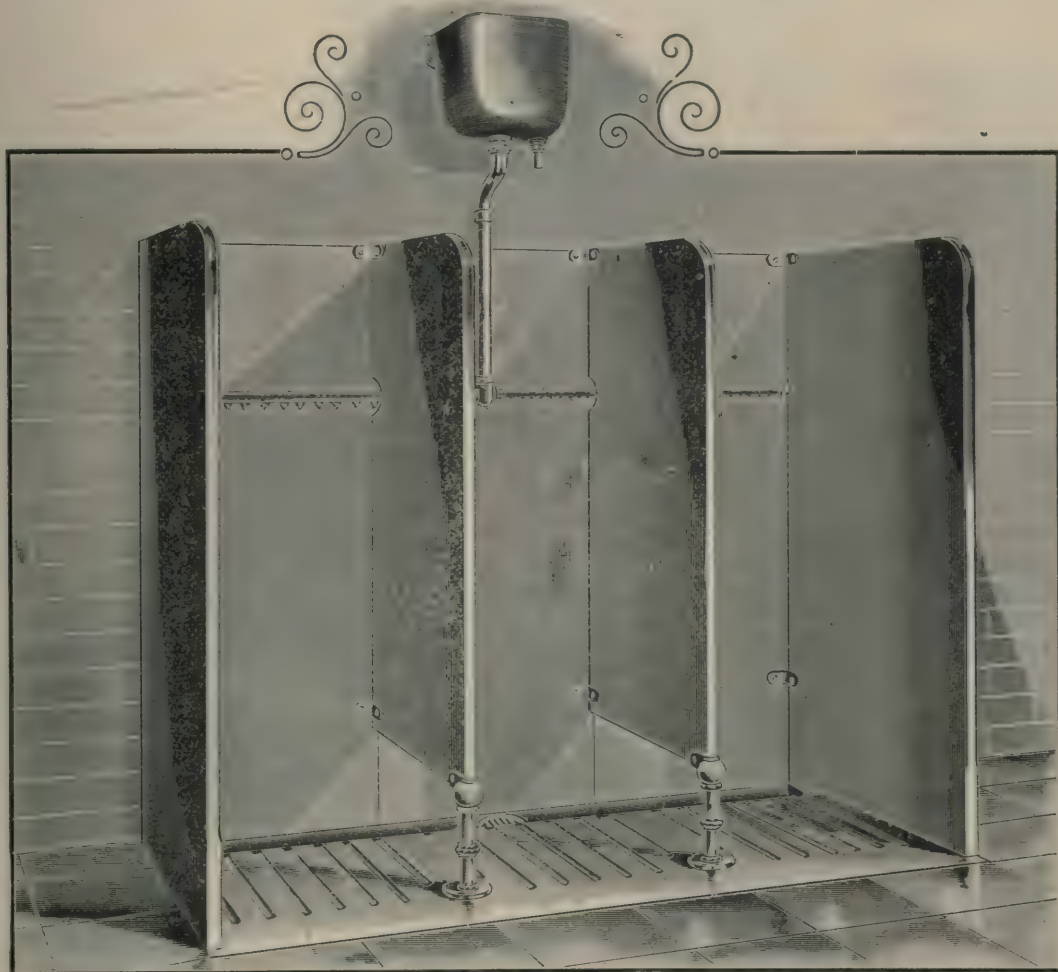
DIMENSIONS OF STALLS.

Distance from Centre to Centre of partition, 2 feet; Depth of End Partition, 2 feet; Depth of Middle Partitions, 1 foot 6 inches; Backs, 1 inch Thick; Ends and Middle Partitions, 1¼ inches Thick; Floor Slabs, 1½ inches Thick; Height 4 feet 6 inches, or 5 feet 6 inches as may be required.

	4 FT. 6 IN. HIGH.		5 FT. 6 IN. HIGH.	
	With Galv'd. Iron Standards and Clamps, and Brass Flush Pipe.	With Plated Brass Stand-ards, Clamps, and Flush Pipe.	With Galv'd. Iron Standards and Clamps, and Brass Flush Pipe.	With Plated Brass Stand-ards, Clamps and Flush Pipe.
Three Stall Urinal with Standards for Partitions, Brass Clamps and Bolts, and Perforated Brass Flush Pipe, and Galvanized Iron Gutter, Supply Stop Cock, Etc.	67.00	70.00	75.00	78.00
Add for each additional Stall	19.00	22.00	22.50	24.00

Slate Urinals for Factories, Schools, Etc.

Fig. 1666.



DIMENSIONS OF STALLS.

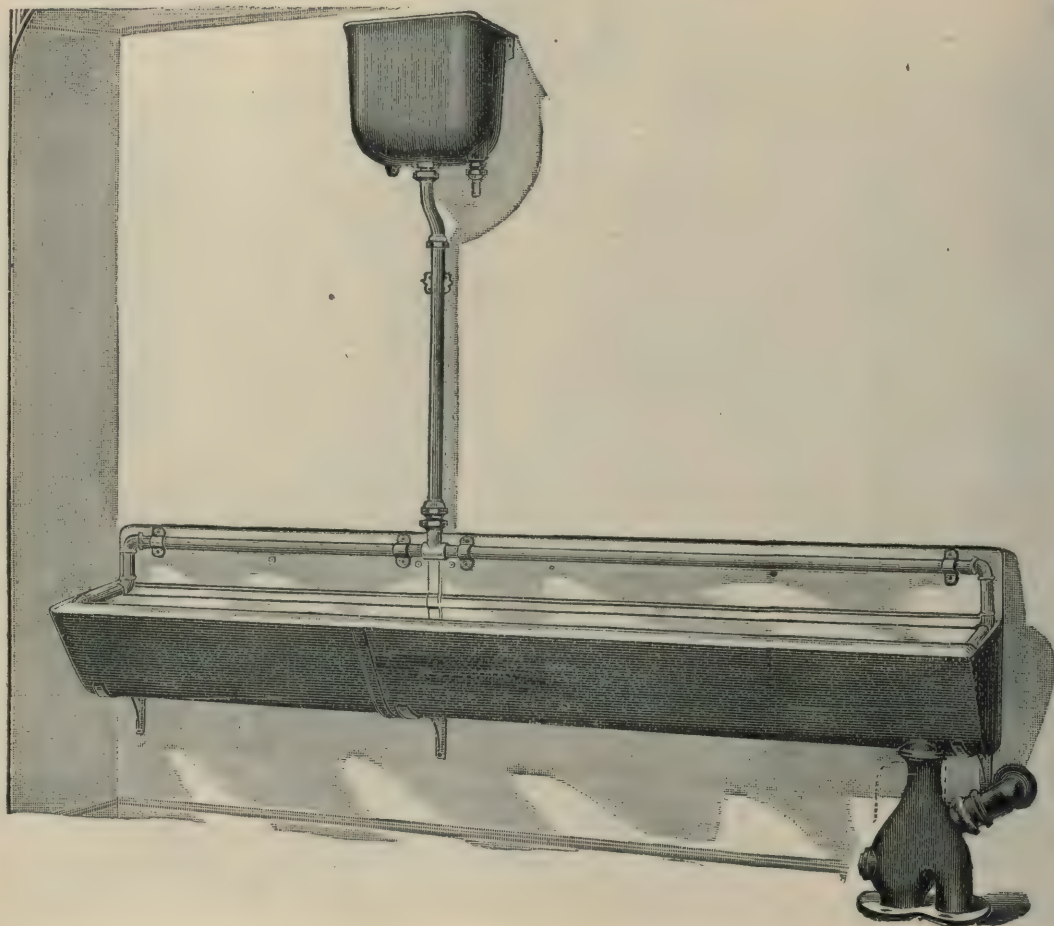
Distance from Centre to Centre of Partitions, 2 feet; Depth of End Partitions, 2 feet; Depth of Middle Partitions, 1 ft. 6 in.; Back-, 1 inch thick; Ends and Middle Partitions, $1\frac{1}{4}$ inches thick; and Floor Slabs, $1\frac{1}{2}$ inch thick; Height, 4 ft. 6 in. or 5 ft. 6 in. as may be required.

	4 FT. 6 IN. HIGH.		5 FT. 6 IN. HIGH.	
	With Galv'd. Iron Standards and Clamps, and Brass Flush Pipes.	With Plated Brass Standards, Clamps and Flush Pipes.	With Galv'd. Iron Standards and Clamps, and Brass Flush Pipe.	With Plated Brass Standards, Clamps and Flush Pipe.
Three Stall Urinals with Standards for Partitions, Brass Clamps and Bolts, and Perforated Brass Flush Pipe and Galvanized Iron Gutter, 3 Gal. Morrison's Improved Automatic Flush Tank with Brackets and 1 in. Galv'd. Down Pipe from Tank.	77.00	80.00	85.00	88.00
For each Additional Stall, Add.....	19.00	22.00	22.50	24.00

Automatic Flushing Pipe Urinal Trough.

For Factories, Schools and Public Buildings.

Fig. 1667.

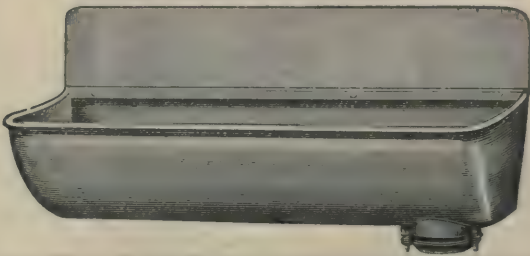


Cast Iron Urinal Trough with Perforated Flush Pipe, Trap Standard, Brackets, Pipe from Cistern to Urinal with Morrison's Improved Automatic Flushing Cistern Iron, or Wood Copper Lined, with Brackets, and Back 10 inches High.

Length of Urinal Trough, in feet.....	5	8	10	12	14
Capacity of Flushing Tank, Gallons.....	3	4	5	5	8
Plain with Galv'd. Iron Flush Pipe. Price each	55.00	80.25	91.50	102.75	114.00
Galvan zed { With Gal. Iron " " "	67.00	100.00	116.75	133.75	150.75
{ With Brass " " "	86.00	122.50	142.25	162.00	181.75
Enameled { With Gal. Iron " " "	87.00	130.50	154.50	178.50	202.50
{ With Brass " " "	106.50	154.00	181.50	208.50	235.50
For each additional 2 feet of Urinal	{ Plain, Galvanized Flush Pipe 11.25 Galv'd., " " 17.00 Enameled " " 24.00				
Add to given price.....	Brass do 19.75 " do 27.00				

Cast Iron Urinals.
Urinal Troughs.

Fig. 1668.



	DIMENSIONS.			PRICE.		
	Length, Ins.	Width, Ins.	Depth, Ins.	Plain.	Galv'd.	Enameled.
Urinal Trough with Back, with Outlet on Right or Left as required.	36	13	12	7.75	14.00	21.00
	42	13	12	9.25	16.75	24.00
	48	13	12	10.50	19.75	27.00
	60	13	12	15.50	28.00	36.00
	72	13	12	19.75	35.25	45.00

HALF CIRCLE.
Fig. 1669.



HALF CIRCLE WITH VENTILATING HOOD.
Fig. 1670.



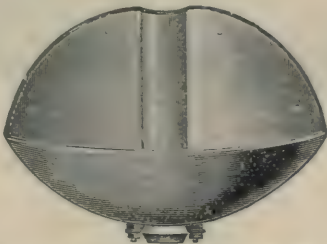
	FIG. 1669.		FIG. 1670.	
	No. 1.-12"	No. 2.-15"	No. 1.	No. 2.
Plain.....Price each	1.12	1.50	1.50	2.00
Galvanized....."	2.25	2.85	2.75	3.50
Enameled....."	2.85	3.40	3.25	4.00

Corner Urinals.

ENGLISH PATTERN.
Fig. 1671.

WITH OPENING FOR LEAD PIPE.
Fig. 1672.

WITH VENTILATING HOOD.
Fig. 1673.



	FIGS. 1671 AND 1672.			FIG. 1673.		
	No. 1.-8"	No. 2.-10"	No. 3.-12"	No. 1.	No. 2.	No. 3.
Plain.....Price each	.90	1.12	1.35	1.25	1.60	2.00
Galvanized....."	1.50	1.85	2.50	1.88	2.50	3.25
Enameled....."	2.10	2.55	3.15	2.40	3.00	3.75

Kitchen, Slop and Pantry Sinks, Wash Tubs and Fittings.

The following are a few of the Principle Fittings used in fitting up Kitchen, Slop and Pantry Sinks, Porcelain, Slate and other Wash Tubs where first class Plumbing is a Desideratum.

From a Sanitary point of view, Open Plumbing cannot be too highly commended, and to no Fixtures in the House should more attention be paid than to the cleanliness of Sinks of every description and all their appointments.

Sink Cocks.

Patent Compression Cushion Sink Cocks, Design Registered 1895.

Fig. 1674.—FOR LEAD PIPE.

Fig. 1675.—FOR IRON PIPE.

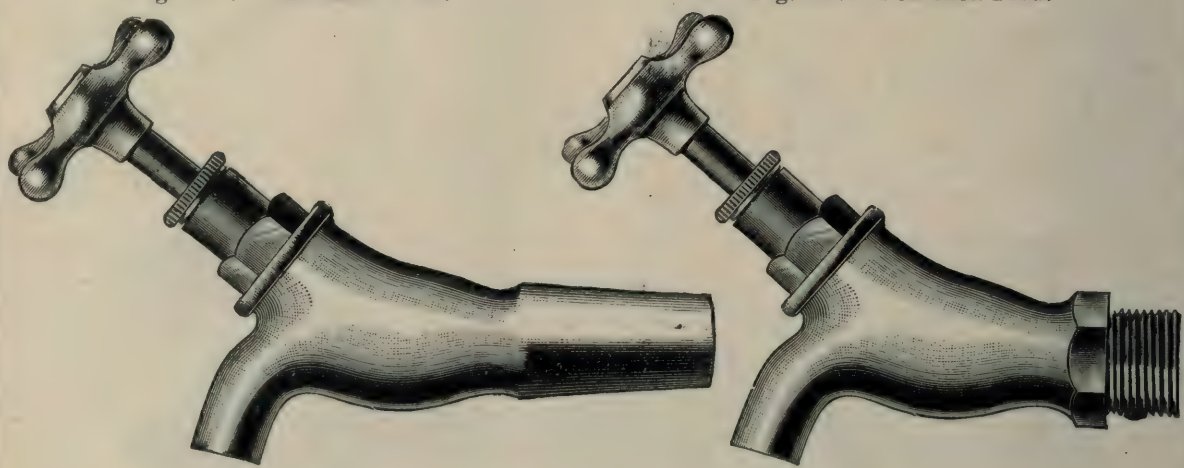


Fig. 1676.—WITH FLANGE NUT AND BENT COUPLING.

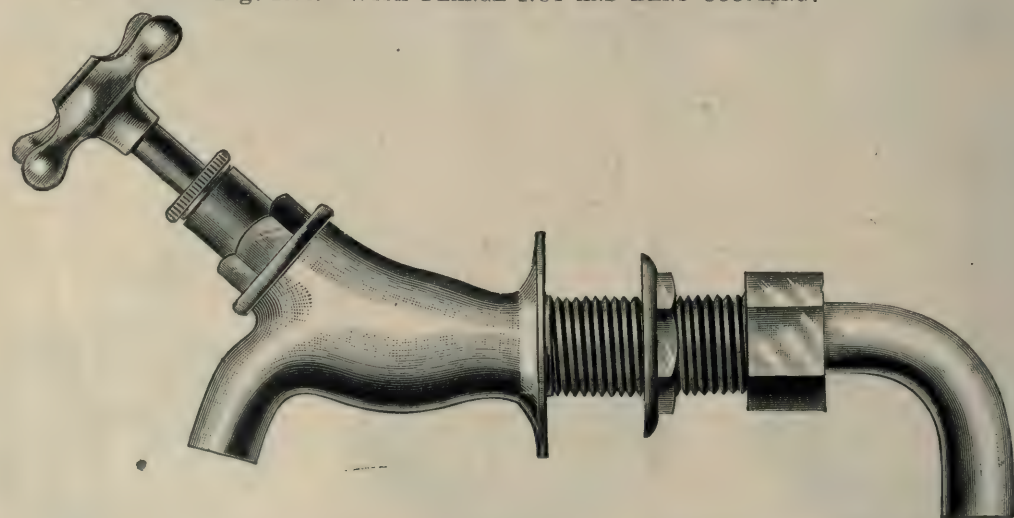
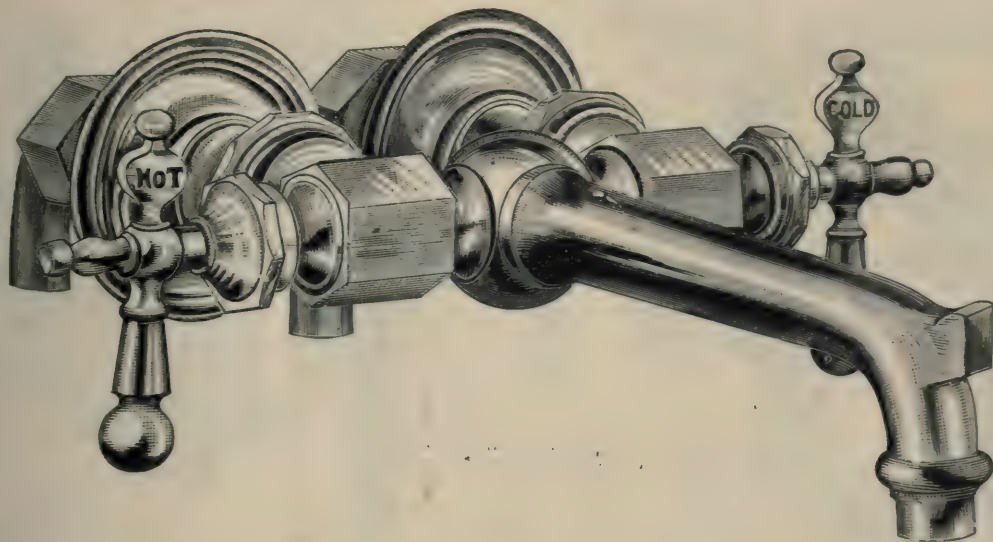


	Fig. 1674. For Lead Pipe.		Fig. 1675. For Iron Pipe.		Fig. 1676.—With F and Thimble.		Fig. 1676.—With F.N.&B.Coup'g	
	1/2	5/8	1/2	5/8	1/2	5/8	1/2	5/8
Finished.....Price per dozen	28.00	....	29.00	....	38.00	....	48.00
N. Plated....." "	30.50	....	31.50	....	31.50	....	51.50

Improved Fuller's Sink Cocks.

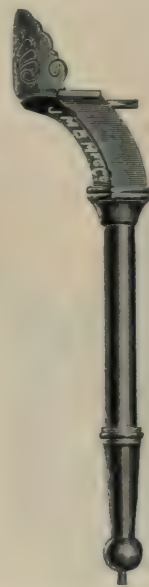
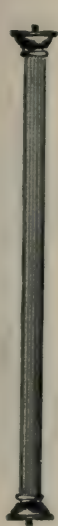
Fig. 1677.



Finished.....Price each 12.00

N. Plated.....Price each 13.00

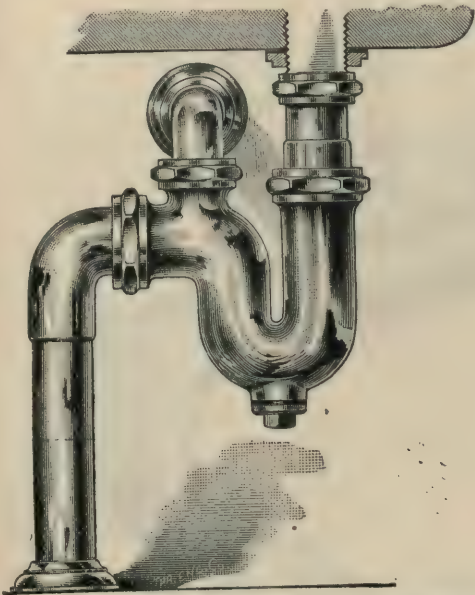
Sink Legs.

No. 1.
Fig. 1678.No. 2.
Fig. 1679.No. 3.
Fig. 1680.No. 4.
Fig. 1681.No. 5.
Fig. 1682.No. 6.
Fig. 1683.

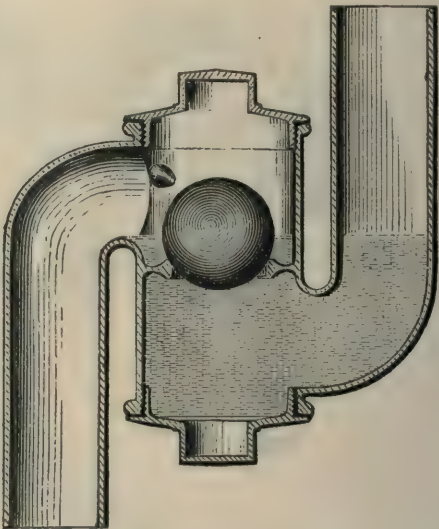
	CAST IRON.				BRASS.	
	Plain	Paint'd	Bronzed	Galv'd	Finished	N. Plated
Fig. 1678. Fluted Tube with Flanges...each	....	....	....	....	3.25	3.75
" 1679. " " " Apron Holder "	....	....	....	....	3.50	4.00
" 1680. Rope Tube with Flanges.... "	....	....	....	....	3.25	3.75
" 1681. " " " Apron Holder "	....	....	....	....	3.50	4.00
" 1682. Plain Leg with Apron Holder "	1.50	1.75	1.90	3.00	4.25	4.75
" 1683. Recess Leg..... "	1.50	1.75	1.90	3.00	....	....

Sink Fittings.
Traps for Porcelain Sinks.

HALF S TRAP WITH PIPE TO WALL.
Fig. 1684.



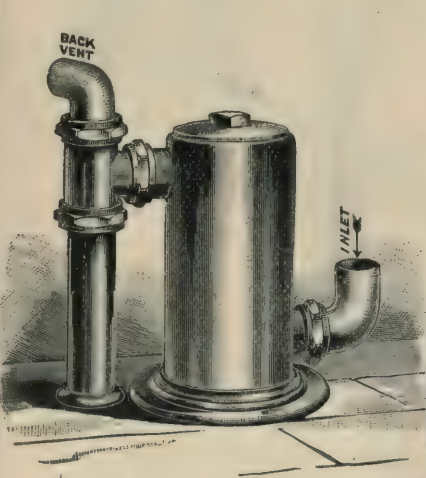
THE "MONTGOMERY" PATENT TRAP.
Fig. 1685.



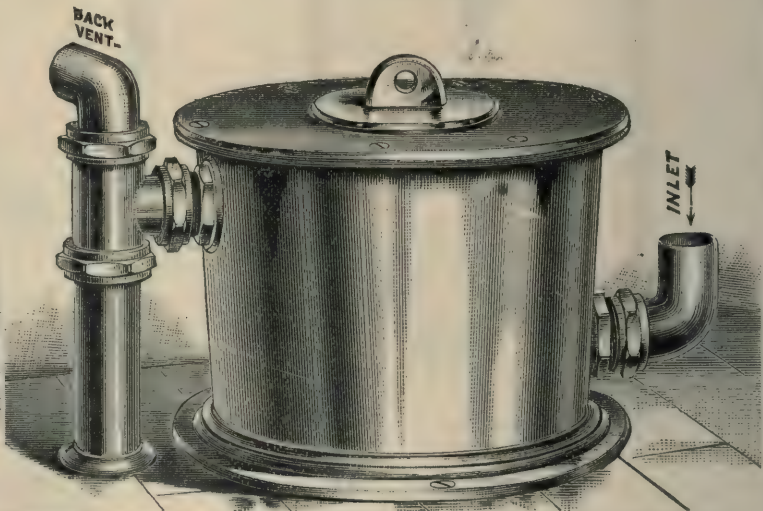
		Polished Brass.	Nickel Plated.
Fig. 1684.	S Trap only, 2 inches	9.00	10.00
" "	S Trap with Pipe to Wall, 2 inch	10.50	11.50
" 1685.	S Trap only, 1½ inch	4.50	5.00
" "	S Trap with Pipe to Floor, 1½ inch	5.50	6.00

Grease Traps to Stand on Floor.

5 INCH TRAP.
Fig. 1686.



14 INCH TRAP.
Fig. 1687.



			Polished Brass.	Nickel Plated.
Fig. 1686.	Brass Trap, 5 inch Diam. Body } 10 inches High }	..... Price each	16.00	16.50
" 1687.	{ Cast Iron Body 14 in. Diam. } Painted Body "		15.00	15.75
	{ 8½ in. High, with Brass } Galv'd. " "		18.75	19.50
	{ Connections. } Enameled " "		26.75	27.50

Sink and Wash Tub Fittings.

COMBINATION, TRAP AND WASTE PIPE AND PLUGS
FOR PORCELAIN, COLONIAL AND YORKSHIRE
WASH TUBS.
Fig. 1688

COMBINATION TRAP STAND-
ARD, FOR SINKS, WASH
TUBS, ETC.
Fig. 1689.

STRAINER FOR
PORCELAIN
SINKS WITH
TRAP STANDARD.
Fig. 1690.

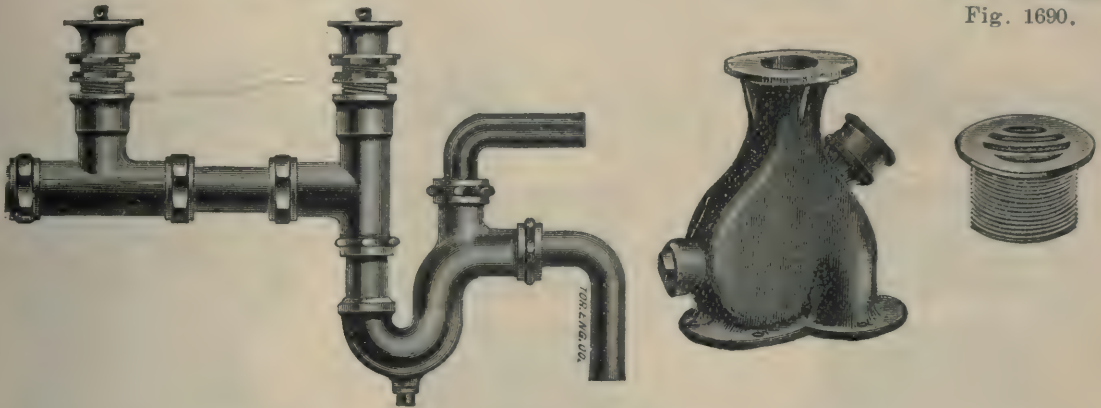


Fig. 1688.—Combination Waste and Trap.

Description.....		Rough	Finished	N. Plated
Combination with 1½ Trap with Pipe to Floor, Waste Pipe and connections	For 2 Tubs, Each	13.50	15.25	16.25
	" 3 " "	15.50	19.50	20.75
Do, do, with 2 in. Trap with Pipe to Floor Waste Pipe and connections.....	For 2 Tubs, "	16.88	19.00	20.25
	" 3 " "	19.50	24.50	25.94

Fig. 1689.—Combination Trap Standard.

Outside Painted, Inside Plain	Price each	6.00
" " " Enameled	"	7.00

Fig. 1690.—Brass Strainer.

Finished.....	Price each 1.00	N. Plated.....	Price each 1.20
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STRAINER WITH COUPLING RING
AND TAIL FOR PORCELAIN
SLOP SINKS.—Fig. 1691.

Wash Tray Plugs.

FOR WOODEN WASH TUBS.

WITH BRASS PLUG.
Fig. 1692.

WITH RUBBER PLUG.
Fig. 1693.

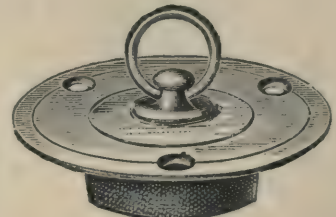
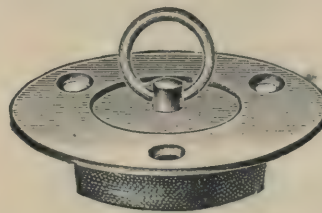
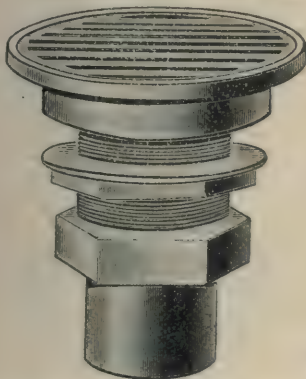


Fig. 1691.—Strainer for Slop Sinks.

	Finished	N. Plated
Brass Strainer with Coupling, Ring and Tail	2.00	2.50

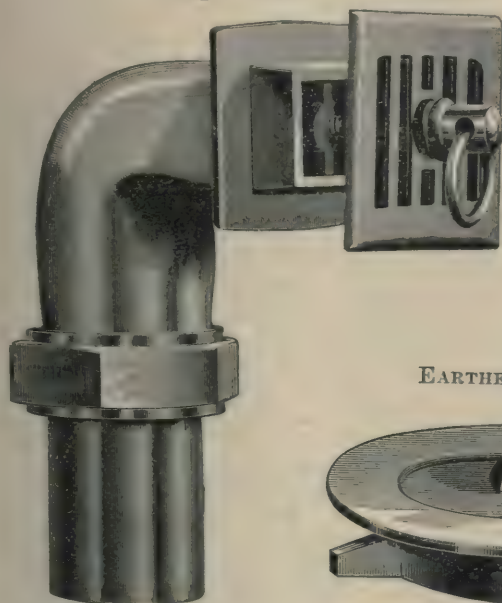
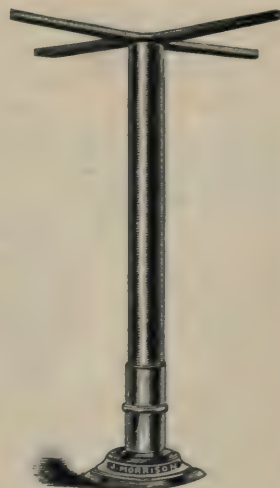
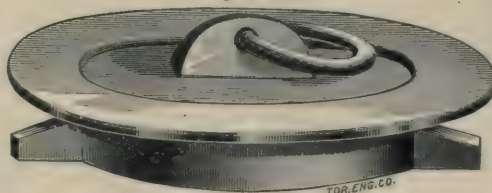
Fig. 1692 and 1693.—Plugs for Wooden Wash Trays.

Size, inches.....		1½	1½	2	2½	3	4	
Fig. 1692 with Brass {	Finished....	Price per Doz.	6.00	7.00	10.00	17.00	22.00	44.00
Plugs:.....	N. Plated....	"	7.50	8.75	13.00	20.00	25.00	48.00
Fig. 1693 with Rubber {	Finished....	"	6.50	7.75	11.00	....	....	....
Plugs:.....	N. Plated..	"	8.00	9.50	14.00	....	....	....

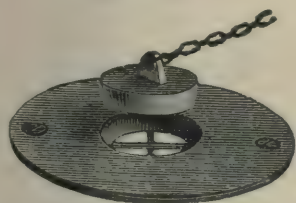
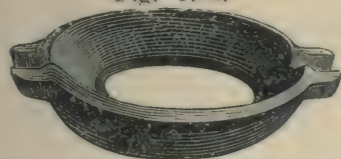
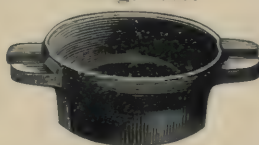
Sink Fittings.

OVERFLOW FOR EARTHENWARE SINK.

Fig. 1700.

CENTRE SUPPORT FOR
PORCELAIN SINK.
Fig. 1702.EARTHENWARE SINK PLUG.
Fig. 1701.

	Finished.	N. Plated.
Fig. 1700. Overflow for Earthenware Sink.....	.75	.85
" 1701. Plug for Earthenware Sink.....	1.00	1.20
" 1702. Centre Support for Porcelain "	7.00	7.50

PLUG SINK STRAINER.
Fig. 1703.OPEN SINK STRAINER.
Fig. 1704.ENAMELED SOAP TRAY.
Fig. 1705.SINK COUPLING FOR LEAD PIPE.
Fig. 1706.SINK COUPLING FOR IRON PIPE.
Fig. 1707.SINK BOLT.
Fig. 1708.

	CAST IRON.			BRASS.	
	Plain.	Galv'd.	Enameled.	Finished.	N. Plated.
Fig. 1703. Plug Strainer, Price Each	...	...	...	.85	1.00
" 1704. Open Strainer, "	.14	.25	.30	...	....
" 1705. Soap Tray.... "	.20	.45	.67	...	....
" 1706. Coupling for Lead Pipe.... "	.13	.20	...	...	....
" 1707. Coupling for Iron Pipe..... "	.75	1.00	...	...	....
" 1708. Sink Bolts, Price per doz.	.30	...	...	...	....

Sink Fittings.

PLUG AND STRAINER FOR STEEL SINKS.
Fig. 1709.

PLUG WITHOUT STRAINER AND WITH
RUBBER PLUG FOR STEEL SINKS.
Fig. 1710.

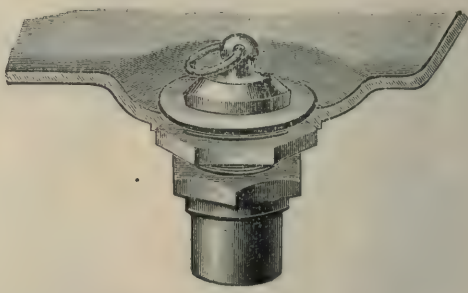
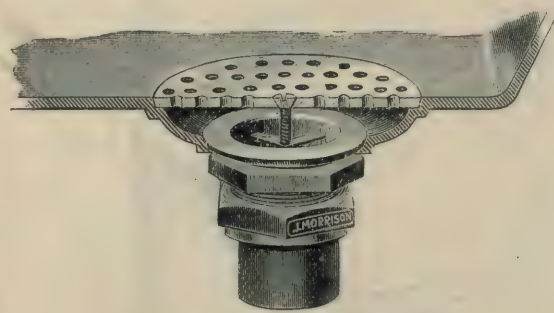
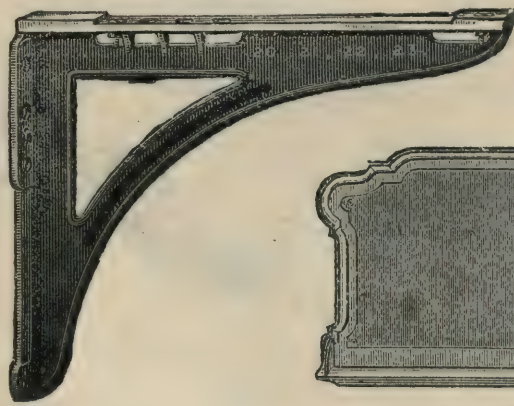


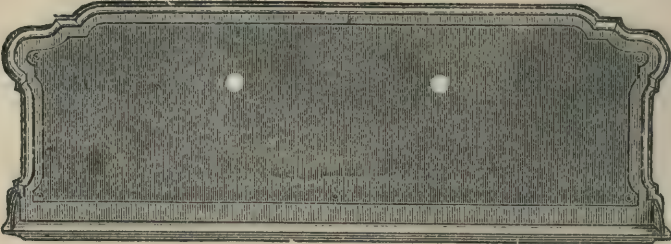
Fig. 1709.	Brass Couplings with Strainers	Price each	50
" 1710.	Brass Couplings with Rubber Plug, no Strainer	"	75

SINK BRACKET.
Fig. 1711.

SINK LEG.
Fig. 1713.



CAST IRON SINK BACK.
Fig. 1712.

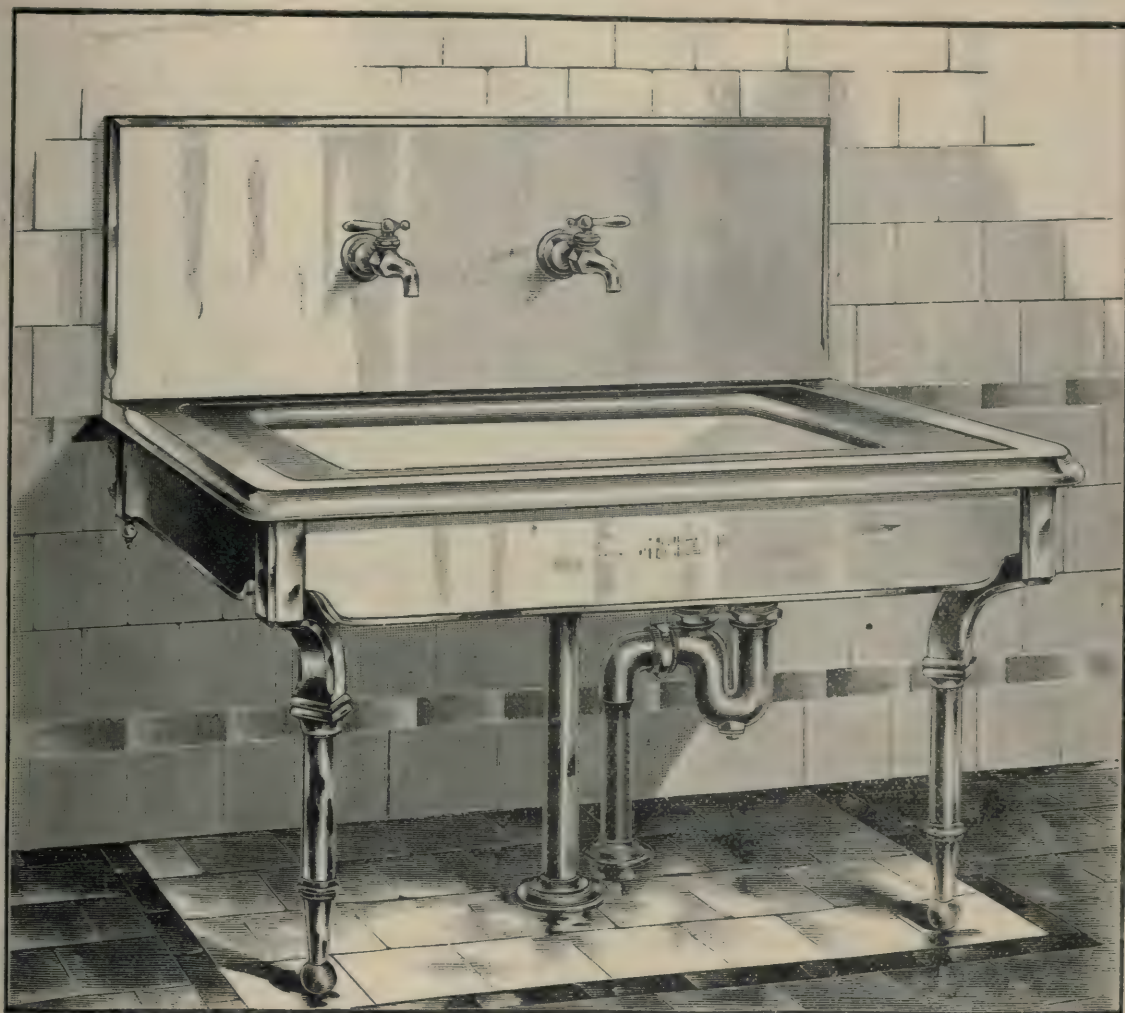


						Plain.	Galv'd.	Enameled
Fig. 1711.	Sink Brackets	{	No. 1 takes up to 18 in. wide, Price per pair			.55	1.00	....
			No. 2 " " 23 " " "			.65	1.10	....
			No. 3 " " 32 " " "			1.50	2.00	....
Fig. 1712.	C. Iron Sink Backs	{	24 in. Long Price each			1.35	2.50	3.70
			30 " " "			1.65	3.00	5.00
			36 " " "			2.20	4.00	6.00
			42 " " "			3.50	6.00	7.00
Fig. 1713.	Sink Legs	{	48 " " "			4.25	7.00	8.00
			..... Price per pair			.75	1.50	....

Sinks.

KITCHEN SINK FITTED UP WITH LEGS, CENTRE SUPPORT, RELIANCE TRAP WITH WASTE PIPE TO FLOOR, MARBLE SLAB, BACK, ETC., ETC.

Fig. 1714.



Imperial Porcelain and Yorkshire Brown Kitchen Sinks.

Dimensions of Sinks, inches	30 x 20 x 7	36 x 23 x 7	42 x 24 x 7
Dimensions of Marble Slabs, inches	42 x 25 x 1 $\frac{1}{4}$	48 x 28 x 1 $\frac{1}{4}$	54 x 29 x 1 $\frac{1}{4}$
Dimensions, of Marble Backs, inches ..	42 x 18 x 1	48 x 18 x 1	54 x 18 x 1
Imperial Porcelain Sink with Marble Slab Back, and Apron Pieces, Nickel Plated Legs, Trap, Stand and Faucets, Complete as shewn...Each	82.00	92.50	108.50
For Yorkshire Brown Glazed Sinks, same detail as above.....Each	62.00	70.50	80.00

Roll Rim Kitchen Sinks.

Fig. 1715.



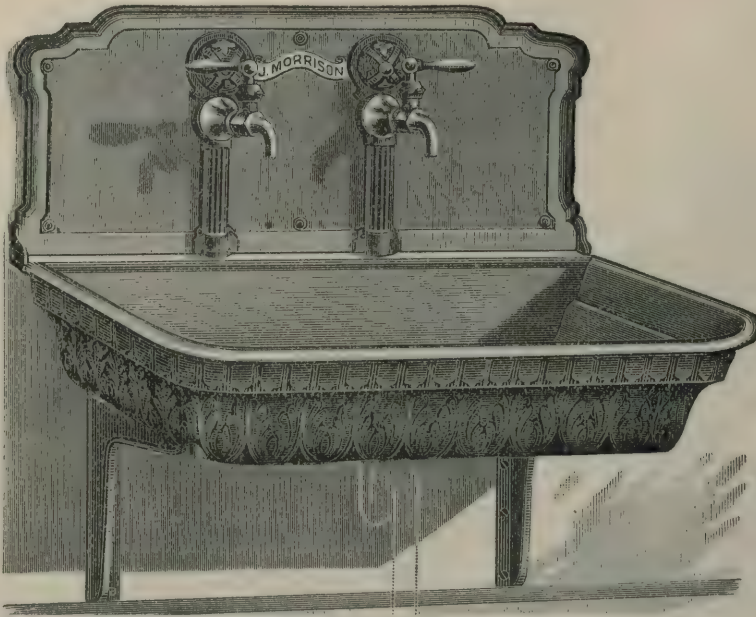
Imperial Porcelain, Colonial and Yorkshire Brown Sinks.

WITH RECESS LEGS, PORCELAIN BACK, N. PLATED FAUCET AND TRAP.

Dimensions of Sinks, Inches.....	30 x 20 x 9	36 x 23 x 7	42 x 24 x 7
Dimensions of Porcelain Backs, Inches	30 x 18 x 2	36 x 18 x 2	42 x 18 x 2
Imperial Porcelain Roll Rim Sink with N. Plated Recess Legs, Faucets, 2 inch Trap with Pipe to Floor. Complete as shewn.....Price each	Class A 75.25 " B 59.50 " C 52.75	81.50 63.75 56.00	94.25 72.00 62.40
Colonial Roll Rim Sink with Bronzed Iron Recess Legs, N. Plated Faucets, 2 inch Trap with Pipe to Floor.....Price each	70.00	75.00	90.00
Yorkshire Brown Roll Rim Sink with Bronzed Iron Recess Legs, N. Plated Faucets, 2 inch Trap with Pipe to Floor and Marble Back .....Price each	55.25	59.75	66.50

Demarests Kitchen Sinks.

WITH BRACKETS.
Fig. 1717.



WITH LEGS.
Fig. 1718.

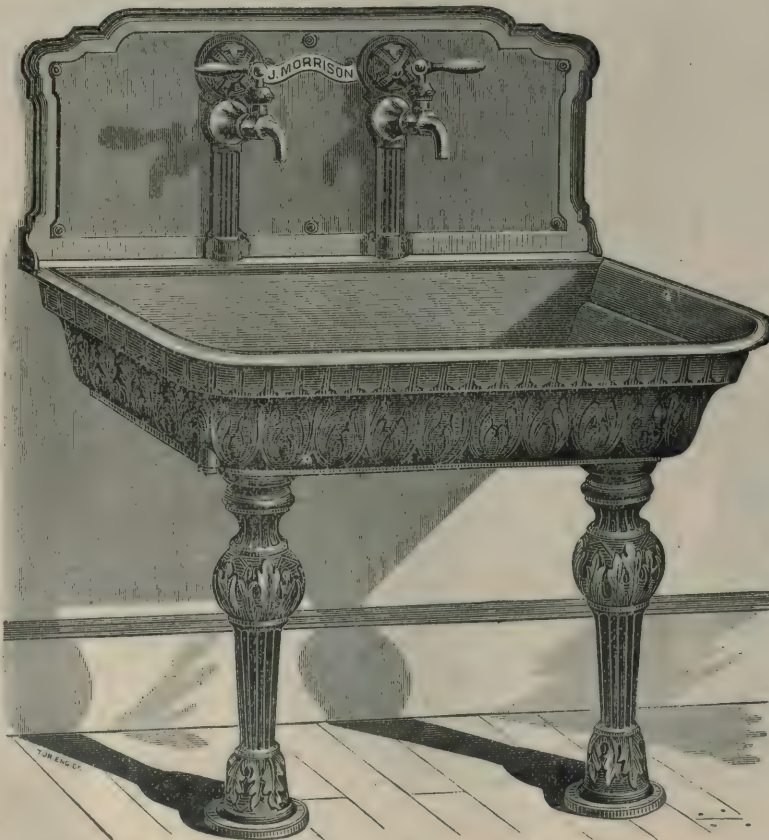
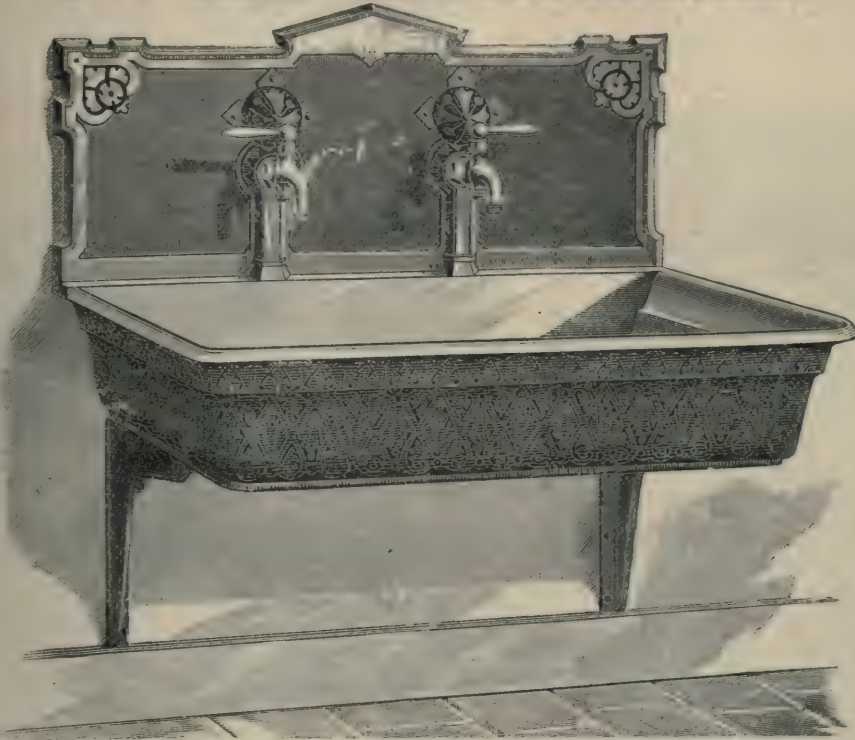


Fig. 1718.	Size, Inches	Plain.	Galvanized	Enameled	Fig. 1717.	Size, Inches	Plain	Galvanized	Enameled
Demarests Sinks with Legs, Backs and Air Chambers without Faucets. Price each	30 x 22 x 7	14.00	25.34	31.34	Demarests Sinks with Brackets, Air Cham- bers and Backs with- out Faucets. Each Do Do with Brack- ets and Backs with- out Air Chambers and Faucets.... each	30 x 22 x 7	12.00	22.00	29.34
	36 x 22 x 7	16.34	29.00	35.34		36 x 22 x 7	14.34	25.75	33.34
	42 x 22 x 7	18.34	32.34	39.34		42 x 22 x 7	16.34	28.34	37.34
	48 x 22 x 7	20.00	34.67	44.67		48 x 22 x 7	18.00	31.34	42.75
	30 x 22 x 7	11.25	22.50	27.63		30 x 22 x 7	8.00	16.75	22.75
Do with Legs and Backs without Air Chambers and Fau- cets..... Price each	36 x 22 x 7	13.84	26.50	32.13		36 x 22 x 7	10.34	20.34	26.75
	42 x 22 x 7	16.00	30.25	36.63		42 x 22 x 7	12.34	23.75	30.75
	48 x 22 x 7	18.00	34.25	42.50		48 x 22 x 7	14.00	26.00	36.00

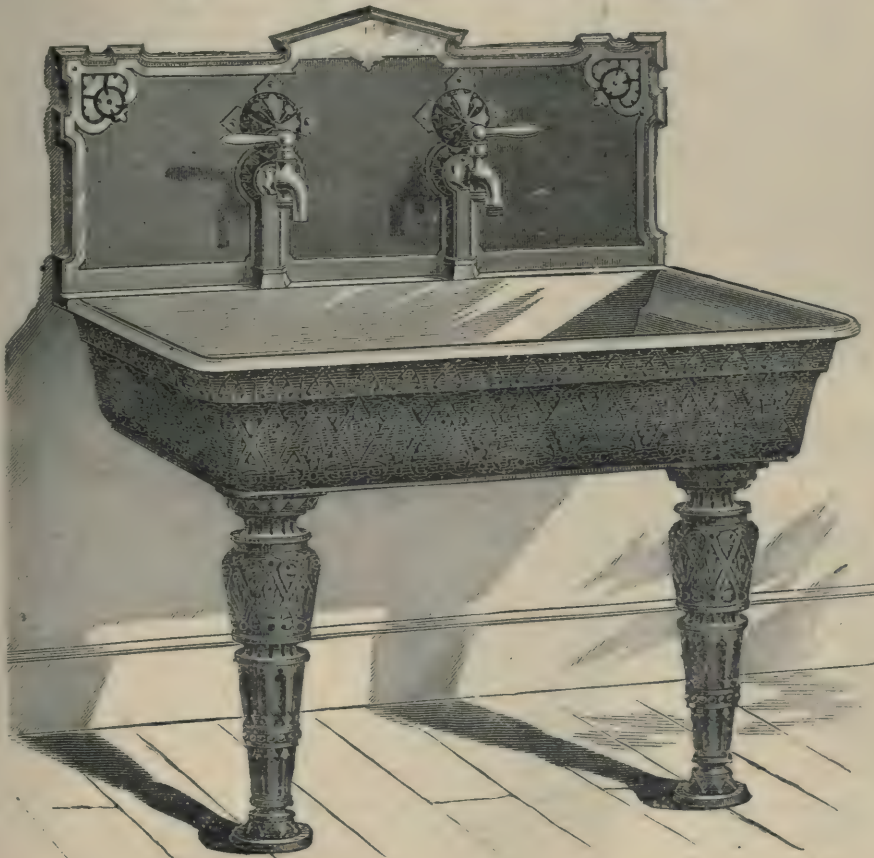
Fig. 1719. — "Eastlake" Kitchen Sinks with Brackets.



Size, Inches.	Plain.	Galv'd.	Enameled.
30 x 23 x 9	15.34	28.75	35.33
36 x 23 x 9	18.00	32.75	42.00
42 x 23 x 9	20.75	36.75	48.75
48 x 23 x 9	24.75	42.00	55.34

"Eastlake" Kitchen Sinks with Brackets, Backs and Air Chambers, No Faucets.

Fig. 1720. — "Eastlake" Sinks with Legs.

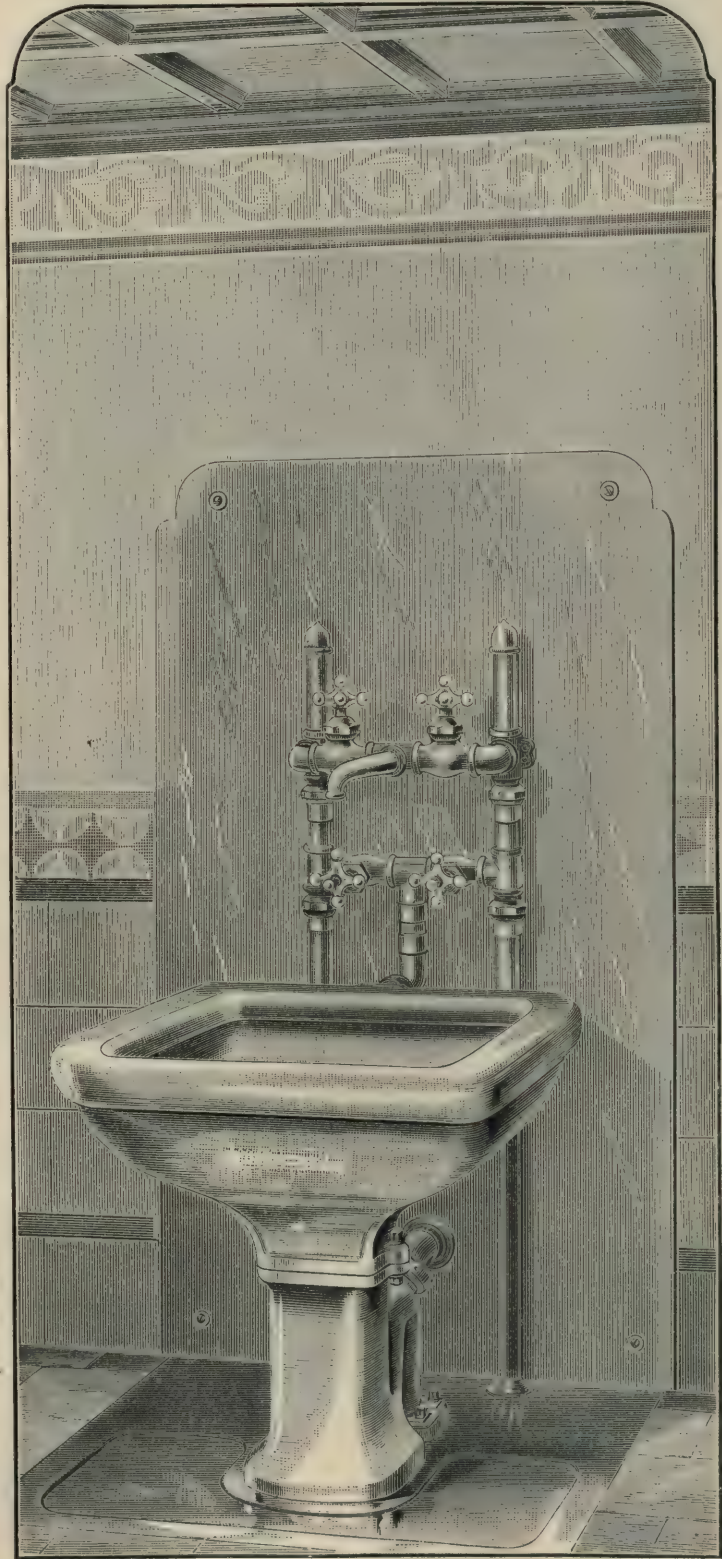


Size, Inches.	Plain.	Galv'd.	Enameled.
30 x 23 x 9	17.34	32.00	37.34
36 x 23 x 9	20.00	36.00	44.00
42 x 23 x 9	22.67	40.00	50.67
48 x 23 x 9	26.67	45.34	57.34

"Eastlake" Kitchen Sinks with Legs, Backs and Air Chambers, no Faucets

The “Hygeia” Porcelain Flushing Rim Slop Sink.

Fig. 1721.

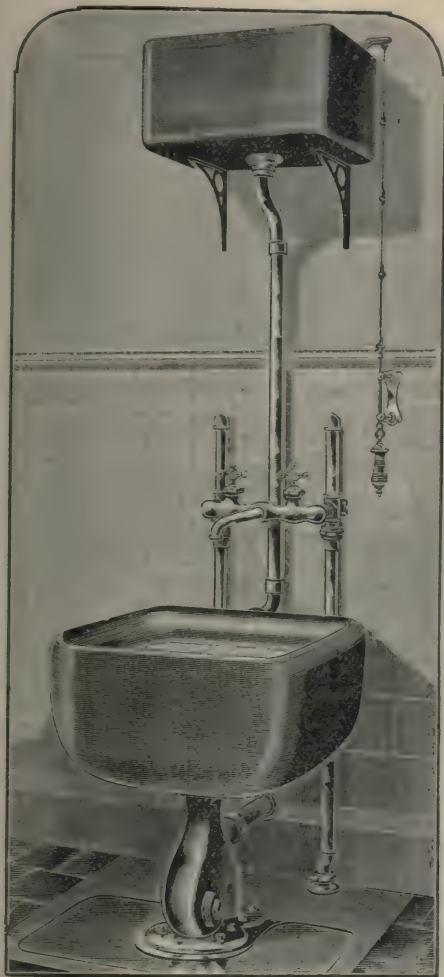


The “Hygeia” Porcelain Flushing Rim Slop Sink.

With No. 4 Syphon, 18 x 9 x 10 Flushing Tank, Oak or Cherry, Combination Supply Faucet, Brass Flush Pipe, Cistern, Brackets, Chain and Pull, Brass Vent Coupling and Supply Pipes to Floor. Price complete without Marble Floor Slab.....	70.75
do do without Flush Tank, Flush Pipe or Brackets. Complete as shewn without Marble Slab.....	56.00
Marble Slab 30 x 27 x 1½.....Extra	10.00

The "Richmond" Flushing Rim Slop Sink.

Fig. 1722.



The "York" Hospital Sink.

Fig. 1723.



The "Richmond" Slop Sink with Bronzed Iron Trap Standard, Cherry or Oak Flushing Tank, N. Plated Flush Pipe, Brackets, Chain Slide with Porcelain Handle, Nickel Plated Faucets with Pipes to Floor.

Number.....	No. 1.	No. 2.
Dimensions, Inches.....	20 x 20 x 11	22 x 22 x 12
Imperial Porcelain { Firsts.....Price each	94.00	96.00
Seconds....."	85.00	87.00
Colonial"	74.00	76.00

The "York" Hospital Sinks are the same Prices as the "Richmond" Slop Sink and are fitted up in the same manner. They are practically both the same, the only difference being that the Hospital Sink has no Strainer in it.

Imperial Porcelain Colonial and Yorkshire Brown Roll Rim Slop Sink.

Fig. 1724.



Roll Rim Sink with N. Plated Strainer, Bronzed Trap Standard and N. Plated Improved Fuller's Double Slop Sink Faucet.*

Number of Sink	No. 1.	No. 2.	No. 3.
Dimensions of Sink, Inches	20 x 16 x 12	22 x 18 x 12	24 x 20 x 12
Imperial Porcelain { Firsts Price each	40.50	43.50	46.50
{ Seconds "	31.00	32.75	35.50
Colonial Roll Rim "	28.75	30.25	31.75
Yorkshire Brown Roll Rim "	23.25	24.50	25.75

Imperial Porcelain, Colonial and Yorkshire Brown, Kitchen Sinks.

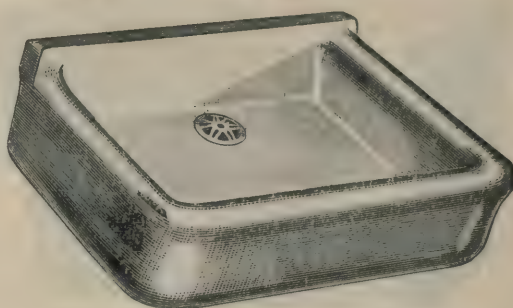
Kitchen Sinks Flat Rim.

Fig. 1725.



Kitchen Sink Roll Rim.

Fig. 1726.

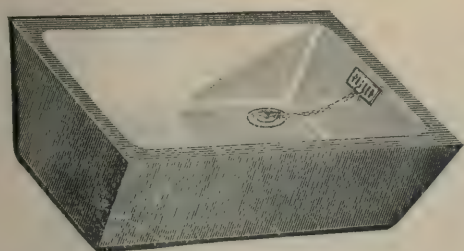


Dimensions of Sinks, inches.....		30 x 20 x 7	36 x 23 x 7	42 x 24 x 7	48 x 24 x 7
Fig. 1725. Imperial Porcelain,	Firsts .. Each	17.00	20.50	27.25	33.00
" " Flat Rim,	Seconds "	11.25	13.50	18.00	22.50
" " Yorkshire Brown Flat Rim..	"	7.75	9.50	13.00	15.75
" 1726. Imperial Porcelain	Firsts .. "	20.25	23.75	30.50	37.00
" " Roll Rim,	Seconds "	.....	.....	.....	.....
" " Colonial Roll Rim.....	"	12.30	15.00	20.00	25.00
" " Yorkshire Brown Roll Rim..	"	9.75	11.75	19.75	19.75

Pantry Sinks.

IMPERIAL PORCELAIN.

Fig. 1727.



WHITE EARTHENWARE.

Fig. 1728.

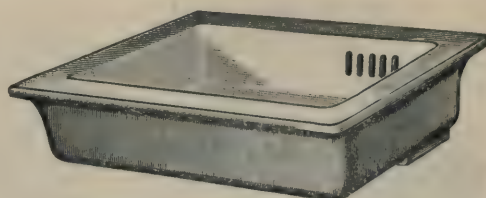


Fig. 1727.—Imperial Porcelain Pantry Sinks.

Dimensions of Sinks, inches.....		20 x 14 x 5	23 x 16 x 6	24 x 17 x 6	28 x 17 x 6	30 x 20 x 7
Firsts.....	Price each	10.00	11.25	13.25	16.00	18.75
Seconds.....	"	7.00	8.00	9.00	11.50	13.50

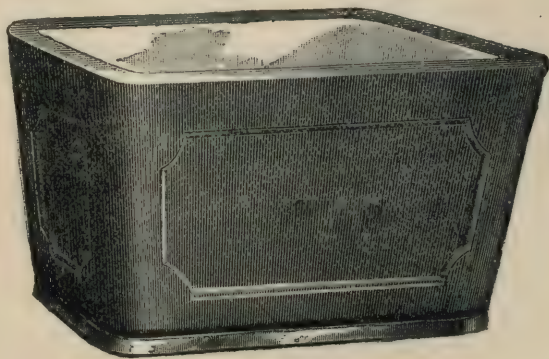
Fig. 1728.—White Earthenware Pantry Sinks, Patent Overflow.

Dimensions of Sinks, inches.....		23 x 16 x 5½	24 x 17 x 5½	25 x 17 x 5½
Price each.....		9.00	11.29	13.50

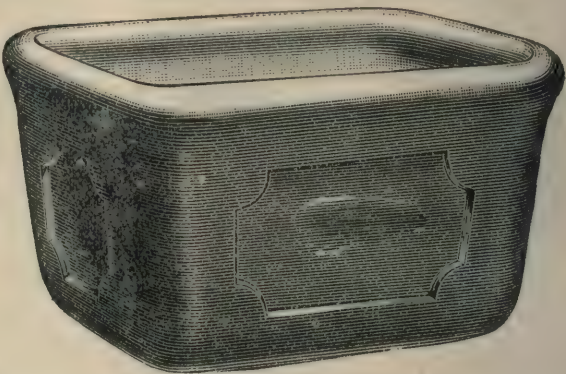
Slop Sinks.

Imperial Porcelain, Colonial and Yorkshire Brown Slop Sinks.

FLAT RIM.
Fig. 1729.



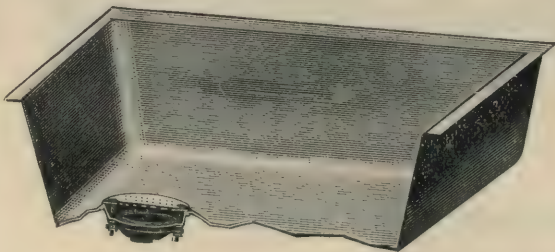
ROLL RIM.
Fig. 1730.



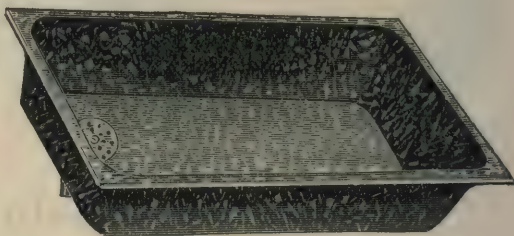
Dimensions of Sinks		20 x 16 x 12	22 x 18 x 12	24 x 20 x 12
Fig. 1729.	Imp'l. Porcelain { Firsts.....Price each	18.50	22.00	25.00
	Flat Rim. { Seconds...	12.75	14.75	16.75
" 1730.	Imp'l. Porcelain { Firsts "	24.50	28.00	31.50
	Roll Rim. { Seconds... "	16.50	18.50	21.50
"	Colonial Roll Rim..... "	14.25	15.75	17.25
"	Yorkshire Brown Roll Rim..... "	8.50	9.75	11.00

The Peerless Steel Sink.

PAINTED, WITH COM. COUPLING.
Fig. 1731.



GALVANIZED, WITH BRASS COUPLING.
Fig. 1732.



	WITH COM. COUPLING.		WITH BRASS COUPLING.	
	Painted.	Galv'd.	Painted.	Galv'd.
14 x 20 x 6.....Price each	1.25	1.85	....	....
16 x 24 x 6..... "	1.30	1.90	1.80	2.40
18 x 30 x 6..... "	2.00	2.55	2.50	3.05
18 x 36 x 6..... "	2.50	3.50	3.00	4.00
20 x 30 x 6..... "	2.50	3.50	3.00	4.00
20 x 36 x 6..... "	3.20	5.40	3.70	5.90
20 x 40 x 6..... "	3.50	6.00	4.00	6.50

Square Sinks, Cast Iron.

PLAIN, GALVANIZED AND ENAMELED.

Fig. 1733.



Dimensions of Sinks.			Prices.		
Length Inches	Width Inches	Deep Inches	Plain	Galv'd	Enam.
18	12	6	1.00	2.00	4.75
20	14	6	1.05	2.25	6.00
24	16	6	1.20	2.75	6.50
24	18	6	1.30	3.00	7.00
25	15	6	1.30	3.00	....
30	18	6	1.34	3.05	8.50
30	20	6	2.00	4.50	9.00
36	18	6	2.25	5.00	9.50
36	22	6	2.90	6.75	11.00
42	22	6	3.20	7.25	12.00
48	20	6	4.00	8.00	13.25
120	22	6	....	....	....
For Patent Overflow Sinks, add to the list of Square Sinks.....			1.00	1.00	1.00

Magee's Patent Sinks.

WITH DISH RACK AND SOAP TRAY.

Fig. 1734.



Sizes.....		Painted.	Galv'd.	Enameled.
24 x 17.....	Price each	1.65	3.75	.
30 x 18.....	"	2.15	4.25	
36 x 19.....	"	2 80	6.00	

Cast Iron Sinks.

Fig. 1735.—CORNER SINK.

Fig. 1736.—SQUARE SLOP SINK.

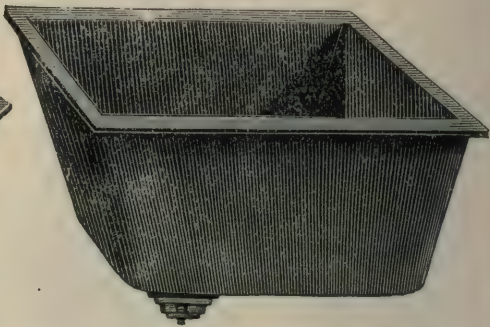
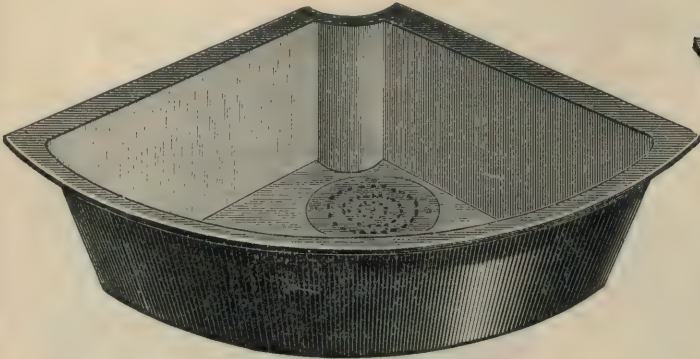


Fig. 1735.—Corner Sinks.

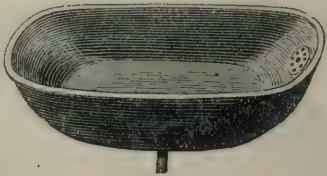
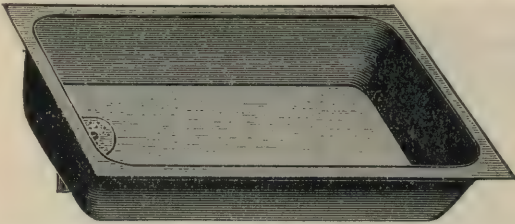
Number.	DIMENSIONS.			Plain.	Galv'd.	Enameled.
	Side.	Front.	Depth.			
1	17	25	4½	1.25	2.75	6.00
2	20	28	6	1.75	3.50	7.00
3	22	31	6½	2.10	4.20	8.00

Fig. 1736.—Square Slop Sink.

SIZES.		Plain.	Galv'd.	Enameled.
16 x 16 x 10	Price each	2.70	5.25	7.50
20 x 14 x 12	"	3.50	6.50	8.50
20 x 16 x 12	"	4.00	8.00	10.00
24 x 18 x 12	"	4.50	9.00	11.00
24 x 20 x 12	"	5.00	9.50	11.50
16 x 16 x 10 with Bell Trap	"	3.00	5.75	....
20 x 14 x 12	"	3.65	6.75	....

Fig. 1737.—SEAMLESS DRAWN SQUARE COPPER SINK.

Fig. 1738.—OVAL PANTRY COPPER SINK.



		DIMENSIONS OF SINKS.			PRICE.
		Length.	Width.	Depth.	
Seamless Drawn Square Copper Sinks with Brass Plugs.		24 in.	16 in.	6 in.	8.25
		30 "	18 "	6 "	10.50
		36 "	18 "	6 "	12.00
		30 "	20 "	6 "	11.25
		36 "	20 "	6 "	14.25
		40 "	20 "	6 "	15.25

Square Copper Sinks, Polished and N. Plated to order at special Prices.

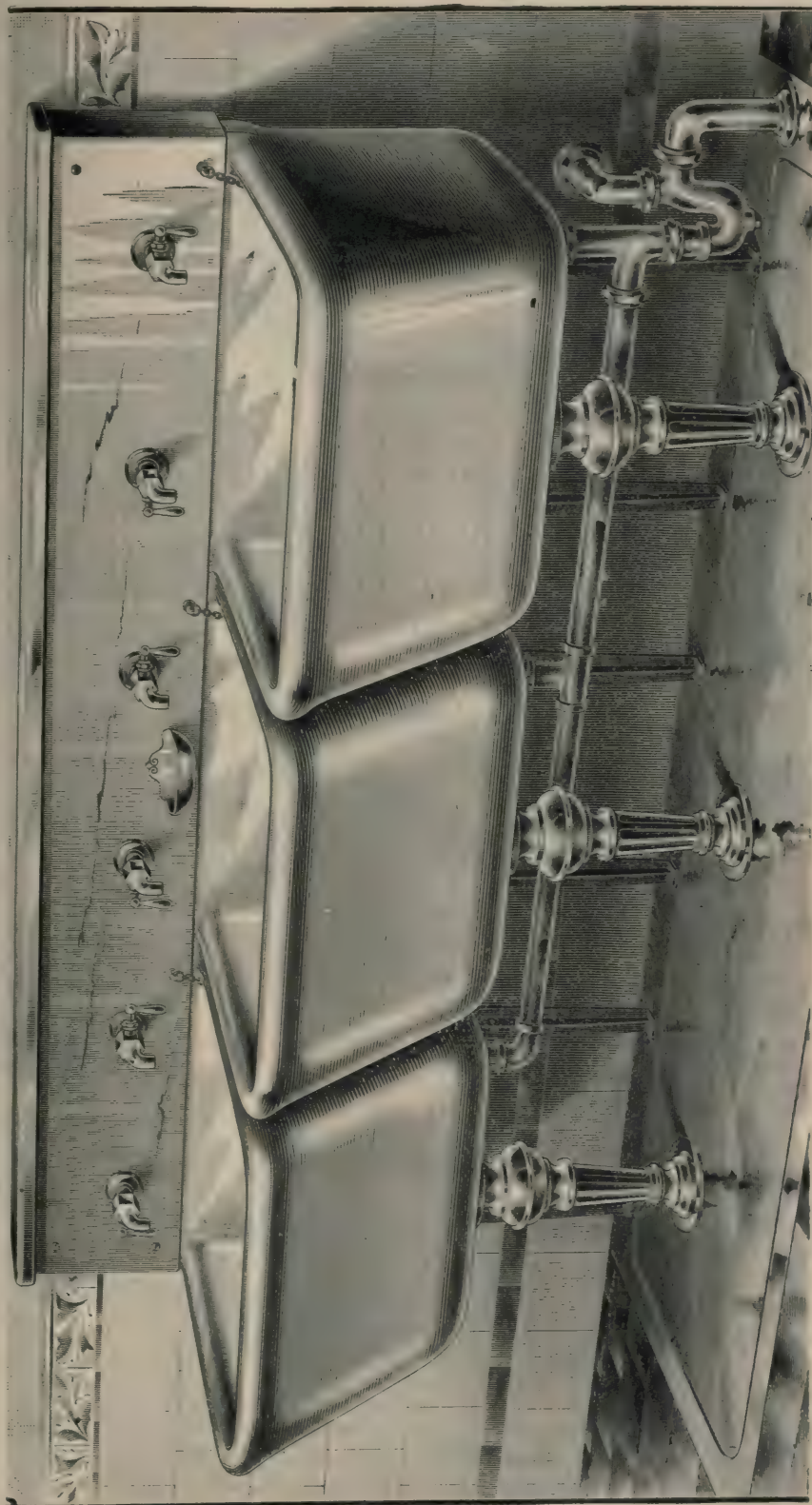
Fig. 1738.—Oval Copper Pantry Sinks.

Size, Inches.....	12 x 18	12 x 20	14 x 16	14 x 20	14 x 24	16 x 24	16 x 30	18 x 30
Price each.....	6.00	6.50	6.00	7.50	9.00	10.00	12.00	13.00

Wash Tubs and Fittings.

Imperial Porcelain, Colonial and Yorkshire Brown Roll Rim Wash Tubs.

Fig. 1739.



Dimensions of each Tub.—Length, 2 ft. 6 in. Width, 2 feet. Depth, 1 ft. 3 in. Inside,	Per Set of 3 Tubs	Yorkshire Brown.	Colonial.	Imperial Porcelain.	
				Firsts.	Seconds.
Set of Tubs as shewn with Bronzed Iron Standards, 1½ in. Brass Waste Pipe with Connection and Trap, Improved Fullers Bibbs and Marble Back.....	2	83.25	100.00	126.50	99.00
Set of Tubs with Bronzed Legs only.....	2	57.25	68.50	86.00	67.75
	3	52.50	69.25	95.50	68.25
	2	35.00	46.25	64.00	45.50

Wash Tubs and Wash Tub Fittings.

Imperial Porcelain, Colonial and Yorkshire Brown Roll Rim Wash Tub.

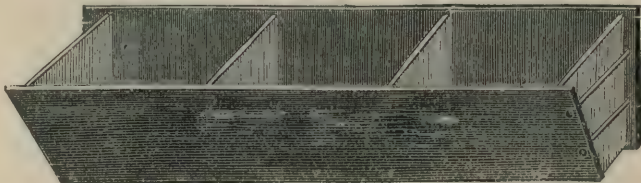
Fig. 1740.



		DIMENSIONS.			PRICE.	
		Length Outside	Width Outside	Depth Inside	Flat Rim	Roll Rim
Imperial Porcelain..	Firsts	2 ft. 6 in.	2 ft.	1 ft. 4 in.	25.50	28.75
	Seconds	2 " 6 "	2 "	1 " 4 "	17.00	20.00
Yorkshire Brown.....		2 " 6 "	2 "	1 " 4 "	12.75	14.25
Colonial.....		2 " 6 "	2 "	1 " 4 "		20.00

Slate Wash Tub.

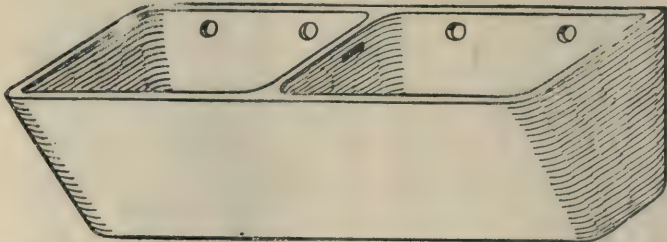
Fig. 1741.



No. of Tubs.....	SINGLE TUB.			TWO TUBS.			THREE TUBS.		
	Length	Width	Depth	Length	Width	Depth	Length	Width	Depth
Dimensions, Inches.....	2' 4"	2'	1' 3"	4' 4"	2'	1' 3"	6' 4"	2'	1' 3"
Tubs only .....Price each	11.00			19.75			27.25		
Tubs with Legs... "	13.50			23.50			32.25		

Laurentian Wash Tubs.

Fig. 1742.



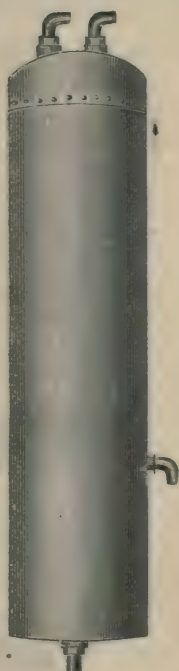
Dimensions	SINGLE.		DOUBLE.	
	2 ft.	2 ft. 6 in.	4 ft.	5 ft.
Tubs only .....Price each	6.00	6.50	10.00	11.25

Copper and Galvanized Range Boilers.

Copper Boilers.

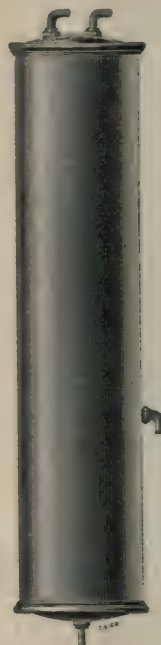
RIVETED BOILERS.

Fig. 1743.



"RESISTO" BOILERS.

Fig. 1744.



	Capacity.	DIMENSIONS.		Fig. 1743. RIVETED BOILERS.			Fig. 1744 'Resisto' Boilers.
		Height.	Diam.	Cistern Pressure.	Heavy Pressure.	Extra Hy Pressure.	
Round Tops for	30 Gallons	5 Feet	12 inches.	24.00	32.00	35.00	22.00
Cistern & Heavy	35 "	5 "	13 "	27.00	36.00	40.00	26.00
Pressure, single	40 "	5 "	14 "	32.00	41.00	45.00	30.00
Riveted.....	45 "	5 $\frac{3}{4}$ "	14 "	37.00	50.00	58.00	.....
	50 "	6 "	14 "	41.00	55.00	68.00	38.00
For Extra Heavy	60 "	6 "	16 "	52.00	65.00	75.00	.....
Pressure, Round	70 "	6 "	17 "	59.00	83.00	95.00	.....
Tops and Double	80 "	6 "	18 "	68.00	100.00	115.00	.....
Riveted.....	90 "	6 "	19 "	80.00	128.00	140.00	.....
	100 "	6 "	20 "	88.00	140.00	150.00	.....

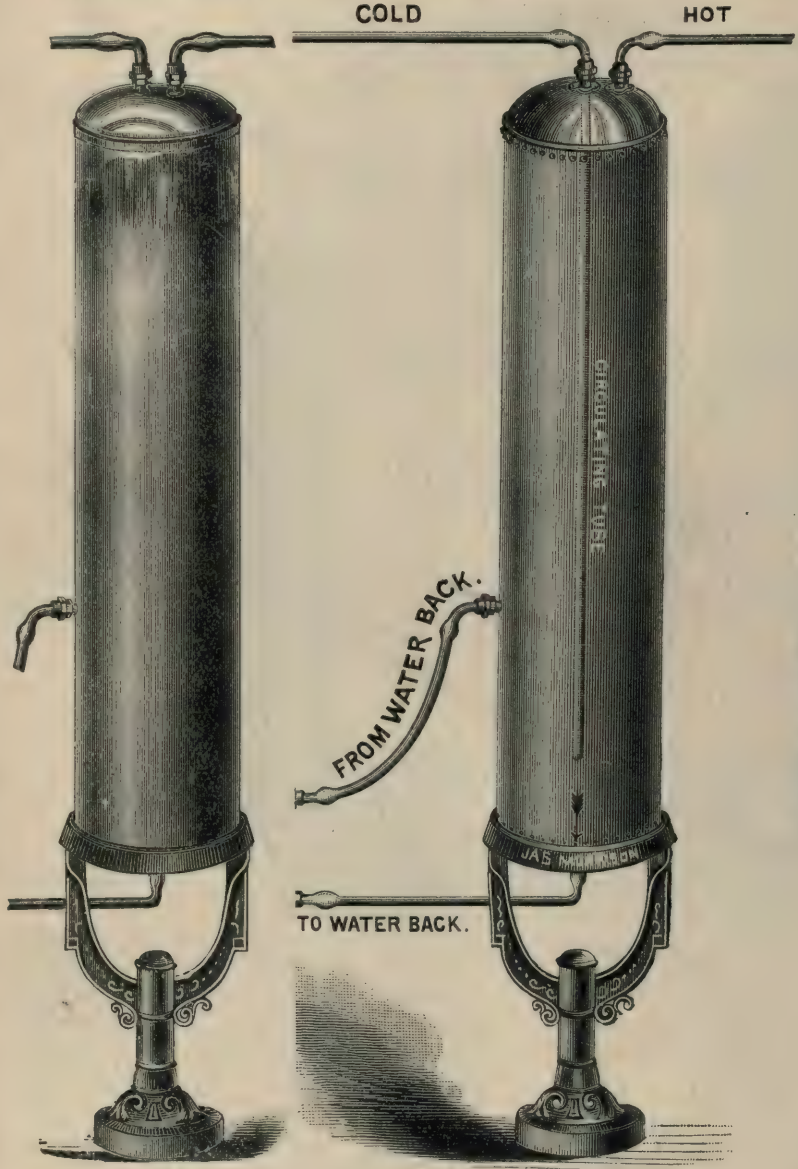
NOTE.—Cistern Boilersare tested to a Pressure of 75 lbs.
 Heavy Pressure Boilers..... " " " 125 "
 Extra Heavy Pressure Boilers..... " " " 200 "

All Copper Boilers for Cistern Pressure should be furnished with a Vacuum Valve, and all Heavy and Extra Heavy Copper Boilers should be furnished with a Relief Valve to relieve the extra strain caused by the sudden closing of Hydrants, Valves or Stop Cocks. The Capacity is in Wine Gallons, and this price does not include Boxing.

Galvanized Iron Range Boilers.

Fig. 1745.—THE "PEERLESS"
UNRIVETED BOILER.

Fig. 1746.—THE "MONITOR"
RIVETED BOILER.



ORNAMENTAL
C. I. BOILER STANDS,
21 INCHES HIGH.
Fig. 1747.



Figs. 1745 and 1746.—Peerless and Monitor Boilers.

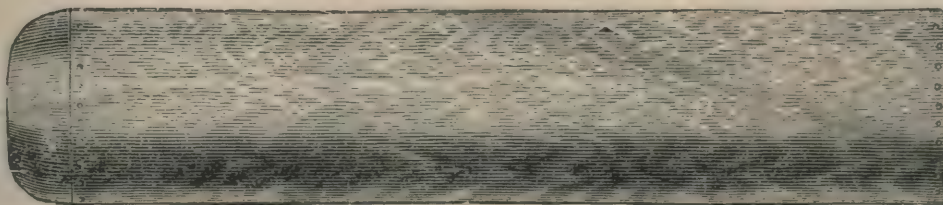
	Capacity in Wine Gals.	DIMENSIONS.		Price of Boilers only.	Price of Boilers with Couplings, Tube and Stand.
		Height.	Diam.		
Galvanized Range Boilers, Peerless and Monitor.	30 Gals.	5 feet	12 in.	12.00	15.60
	35 "	5 "	13 "	14.00	17.70
	40 "	5 "	14 "	16.00	19.80

Fig. 1747.—Boiler Stands.

Size of Ring, Inches	12	13	14	16	18	20	22	24
Plain Price each	1.50	1.60	1.70	2.25	2.50	3.15	3.85	4.80
Galvanized "	3.20	3.25	3.45	4.20	4.50	....	....	....

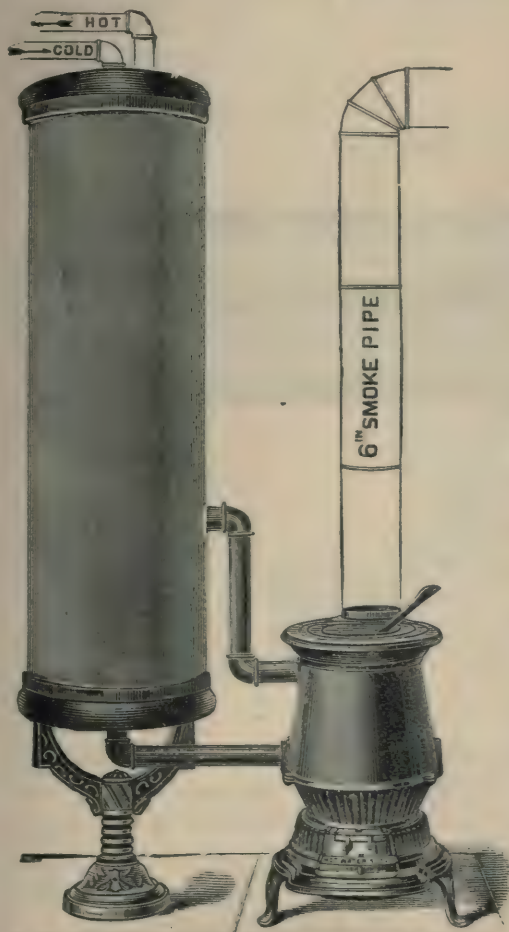
Galvanized Range Boilers.

Fig. 1748.



Capacity.	Height Feet.	Diam Inches.	Price Each.	Capacity.	Height Feet.	Diam Inches.	Price Each.
*18 Gallons	3 Feet	12 Inches	14.50	*42 Gallons	4 Feet	16 Inches	26.00
*21 "	3½ "	12 "	15.50	52 "	5 "	16 "	31.00
*24 "	4 "	12 "	15.75	*53 "	4 "	18 "	31.50
*24 "	3 "	14 "	19.00	66 "	5 "	18 "	25.00
*27 "	4½ "	12 "	18.50	82 "	5 "	20 "	45.50
*28 "	3½ "	14 "	20.75	100 "	5 "	22 "	63.50
*32 "	4 "	14 "	21.00	120 "	5 "	24 "	72.50
*36 "	4½ "	14 "	21.50				

NOTE.—Those marked thus * are not kept in stock, and are only made to order, the given Capacity is in Wine Gallons.



Hot Water Heaters for Hotels, Barber Shops, Etc. Etc.

Fig. 1749.

This Heater has a Capacity of 40 to 50 Gallons per hour, and is specially adapted for Hotels or Barber shops, where a large quantity of water is required. The following are the Dimensions of the Heaters :

Diameter of Fire Pot.....10 Inches,
 Depth of Water Cylinder.....10½ "
 Iron Pipe Connections.....1¼ "
 Capacity per hour.....40 to 50 Gal.

Price each..... \$20 00

Galvanized Iron Range Boilers.

With Copper Steam Coil.

For Heating with Steam.

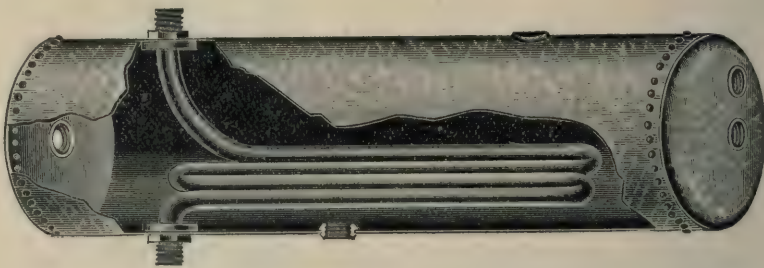
VERTICAL BOILER.

Fig. 1750.



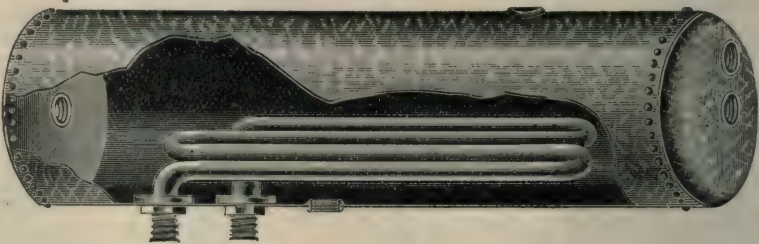
HORIZONTAL BOILER WITH INLET ON TOP.

Fig. 1751.



HORIZONTAL BOILER WITH INLET ON BOTTOM.

Fig. 1752.



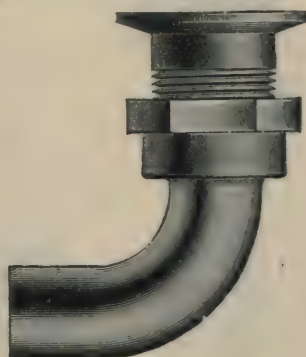
Capacity in Gallons.....	40	52	66	82	100	120
With Copper Coil.....Price each	28.00	38.00	46.00	54.00	68.00	75.00
With Iron Pipe Coil....."	22.00	30.00	38.00	46.00	60.00	67.00

As prices in these Boilers will vary with varying conditions, the above prices are only approximate. They may, however, be relied upon for what may be termed ordinary conditions. In ordering Boilers with Steam Coils, state, in addition to size of Boiler, Steam Pressure, and the quantity of hot water required per hour, as the quantity of Heating Surface in the Coil will be determined by these two factors. Prices for special Boilers on application.

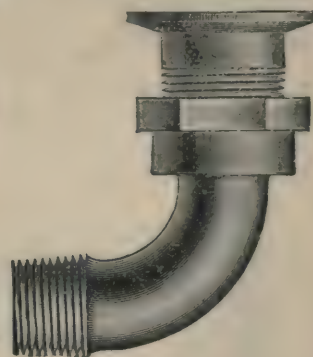
Boiler Couplings.

For Copper Boilers.

FOR LEAD PIPE.

STRAIGHT.
Fig. 1753.BENT.
Fig. 1754.

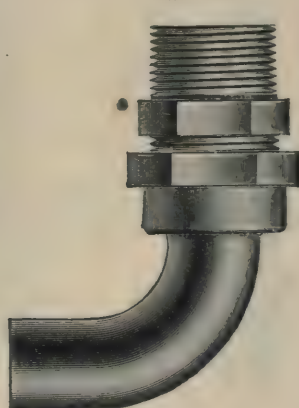
FOR IRON PIPE.

STRAIGHT.
Fig. 1755.BENT.
Fig. 1756.

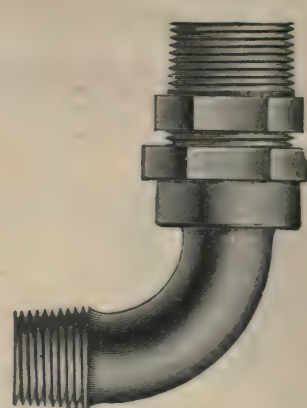
				PLAIN FACE.			GROUND FACE.		
				$\frac{1}{2}$	$\frac{3}{4}$	1	$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 1753.	Straight, for L. Pipe....	Price per doz.		7.00	7.50	10.00	8.00	8.50	11.50
" 1754.	Bent, "	" "		8.00	8.50	11.00	9.00	9.50	12.50
" 1755.	Straight, for Iron Pipe..	" "		8.00	9.50	13.00	9.00	10.50	14.50
" 1756.	Bent " ..	" "		9.00	10.50	14.00	10.00	11.50	15.50

For Galvanized Iron Boilers.

FOR LEAD PIPE.

STRAIGHT.
Fig. 1757.BENT.
Fig. 1758.

FOR IRON PIPE.

STRAIGHT.
Fig. 1759.BENT.
Fig. 1760.

Description				PLAIN FACE.			GROUND FACE.		
Size of Pipe Connection				$\frac{1}{2}$	$\frac{3}{4}$	1	$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 1757.	Straight, for L. Pipe....	Price per doz.		7.50	8.00	11.00	8.50	9.00	12.50
" 1758.	Bent "	" "		8.50	9.00	12.00	9.50	10.00	13.50
" 1759.	Straight for I. Pipe	" "		8.50	10.00	14.00	9.50	11.00	15.50
" 1760.	Bent " ..	" "		9.50	11.00	15.00	10.50	12.00	16.50

Water Back Couplings.

For Lead Pipe.

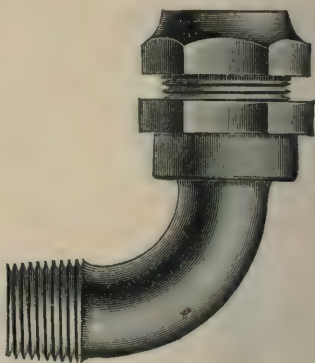
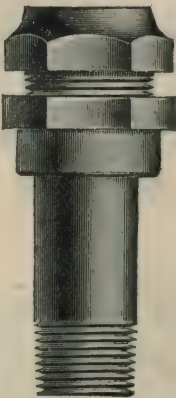
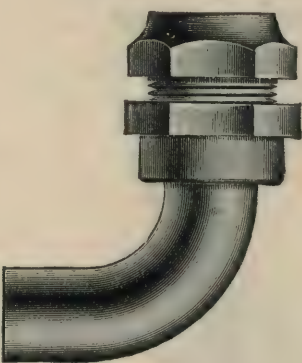
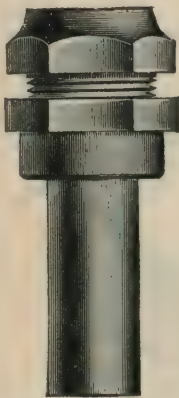
For Iron Pipe.

STRAIGHT.
Fig. 1761.

BENT.
Fig. 1762.

STRAIGHT.
Fig. 1763.

BENT.
Fig. 1764.



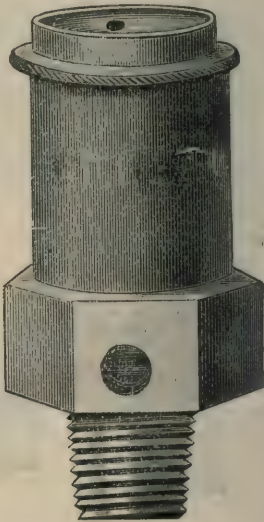
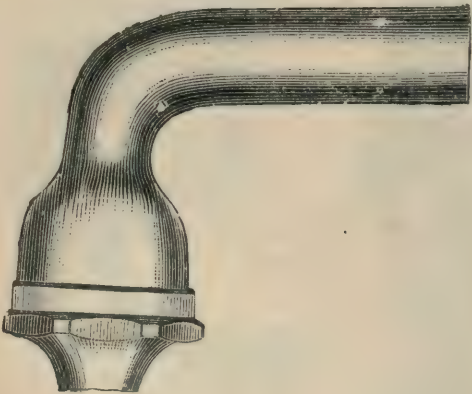
Size of Pipe Connections.....				PLAIN FACE.			GROUND FACE.		
				$\frac{1}{2}$	$\frac{3}{4}$	1	$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 1761.	Straight for Lead Pipe...	Price per Doz.		6.50	7.00	10.00	7.50	8.00	11.50
" 1762.	Bent " " " "			7.50	8.00	11.00	8.50	9.00	12.50
" 1763.	Straight for Iron Pipe...			7.50	9.00	13.00	8.50	10.00	14.50
" 1764.	Bent " " " "			8.50	10.00	14.00	9.50	11.00	15.50

Vacuum Valves.

FOR LEAD PIPE.
Fig. 1765.

FOR IRON PIPE.
Fig. 1766.

SAFETY VALVE
FOR RANGE BOILERS
Fig. 1767.



Description			FOR LEAD PIPE	FOR IRON PIPE.		
			$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 1765.	Valves Rough.....	Price each	.90	1.10	....	....
" "	" Finished.....	"	1.00	1.20	....	....
" 1766.	" Finished.....	"	....	1.25	1.75	2.50
" 1767.	Safety Valve Finished.	"	....	1.50	2.00	....

Hose Goods.

Hose Nozzle to Tie on.

Fig. 1768.



Hose Nozzle to Screw on.

Fig. 1769.



Size of Hose	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Fig. 1768. Length of Nozzle, inches.....	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	5	7	....
Fig. 1769. Length of Nozzle, inches.....	....	6	6	$6\frac{1}{2}$	7	8	12
Fig. 1768. Nozzle to tie on .. Price per doz.	3.00	3.50	4.00	7.20	12.00	19.20	....
" 1769. " to screw on, " .....	....	7.00	9.00	18.00	22.00	34.00	65.00

Plain Hose Branches.

SHORT PATTERN WITH SOLDER TIP.

Fig. 1770.



LONG PATTERN WITH SCREW TIP.

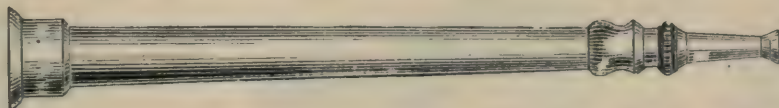
Fig. 1771.



Size of Hose Coupling.....	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Fig. 1770. Length of Short Pattern, inches.....	7	8	$8\frac{1}{2}$	9	11	16
Fig. 1771. Length of Long Pattern, inches.....	8	10	12	14	16	20
Fig. 1770. Short Pattern Finished, Price per doz	8.00	10.00	20.00	25.00	38.00	75.00
" 1771. Long " " "	10.00	13.00	25.00	30.00	50.00	90.00

Taper Plain Hose Branches.

Fig. 1772.



Size of Hose Coupling.....	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Length Short Pattern, inches.....	7	8	$8\frac{1}{2}$	9	11	16
Length Long Pattern, inches.....	8	10	12	14	16	20
Short Pattern..... Price per doz.	8.00	10.00	20.00	25.00	38.00	75.00
Long " " " "	10.00	15.00	30.00	36.00	60.00	100.00

THE DISCHARGE NOZZLES ON THE HOSE PIPE TIPS ARE THE FOLLOWING SIZES.

Size of Hose Branch.....	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Diameter of Opening, inches.....	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{3}{4}$ or 1

Hose Branches.

With Stop Cocks and Screwed Tips.

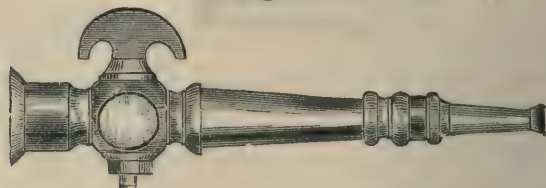
LIGHT PATTERN.

Fig. 1773.



HEAVY PATTERN.

Fig. 1774.



Size of Hose Coupling, Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$
Fig. 1773. Length of Light Pattern, Inches	6	8	..
Fig. 1774. Length of Heavy Pattern, Inches	7	8	9
Fig. 1773. Finished	11.00	15.00	....
" " N. Plated	13.00	18.00	....
" 1774. Finished	14.00	18.00	24.00
" " N. Plated	16.00	21.00	27.00

Hose Branches with Stop Cocks.

LONG PATTERN, SCREWED TIPS.

Fig. 1775.



Size of Hose Coupling, Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Length, Inches	8	10	12	14
Finished	16.00	20.00	40.00	60.00

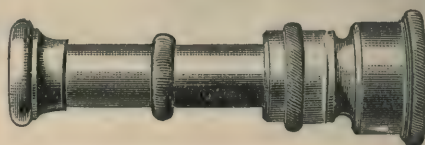
The "Magic" Hose Branch.

Fig. 1776.



The "Gem" Nozzle.

Fig. 1777.



Size of Hose Coupling, Inches	$\frac{3}{4}$	1
Fig. 1776. The "Magic" Branch, Finished	12.00	20.00
" " " N. Plated	14.00	23.00
" 1777. The "Gem" Nozzle, Finished	12.00	....
" " " N. Plated	15.00	....

Hose Couplings.

FOR WATER HOSE.

Fig. 1778.



FOR STEAM HOSE.

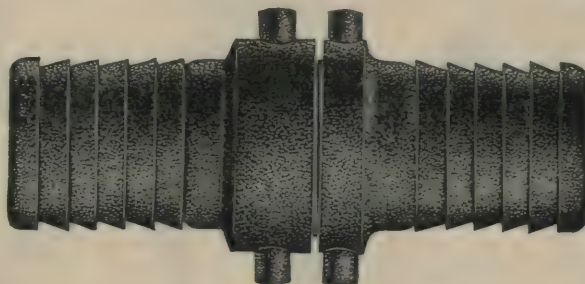
Fig. 1779.



Size of Hose, Inches.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Fig. 1778. Water Hose Coupling.....Price per doz.	2.40	2.40	4.40	....	....
" 1779. Steam Hose Coupling....." "	4.80	4.80	9.00	15.00	24.00

Hose Couplings with Lugs.

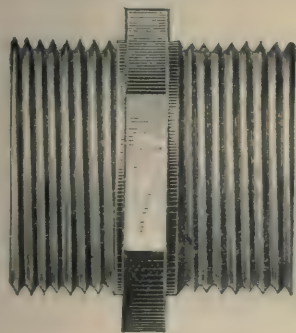
Fig. 1780.



Size of Hose, Inches.....	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Standard .....Price per doz.	10.00	14.00	24.00	48.00	76.00
Extra Heavy....." "	....	18.00	30.00	60.00	100.00

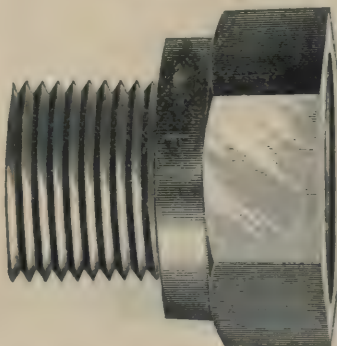
Hose Nipple.

Fig. 1781.



Hose Reducer.

Fig. 1782.



Hose Cap.

Fig. 1783.



Size	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 1781. Hose Nipple, Male, per doz	3.50	3.50	5.00	9.00	10.00	14.00	28.00	40.00
" " " " M. & F. "	3.50	3.50	5.00	9.00	10.00	14.00	28.00	40.00
" 1782. Hose Reducer....."	....	4.00	6.50	10.00	12.00	18.00	42.00	....
" 1783. Hose Cap ....."	....	4.00	6.00	8.00	10.00	15.00	24.00	....

Hose Goods.

Fig. 1784.—HOSE BIBB END.

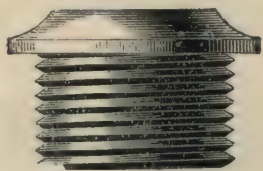
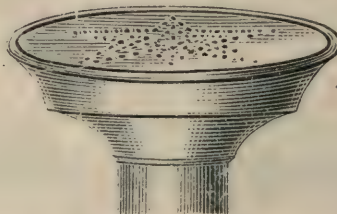
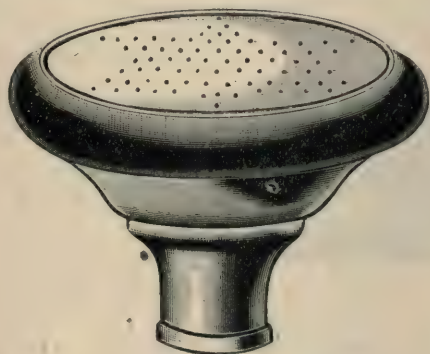


Fig. 1785.—HOSE SPRINKLER.



Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. 1784. Hose End.. per doz.	2.50	2.50	2.50	4.00	6.00	8.00	10.00	15.00	.....	.....	.....	.....
" 1785. Sprinkler.. "	.....	.....	.....	.....	.....	.....	3.50	4.50	6.00	9.00	12.00	18.00
" 1785 $\frac{1}{2}$. " " "	.....	.....	.....	.....	.....	.....	.....	9.00	.....	15.00	.....	.....

Hose Sprinkler.

WITH RUBBER RING.—Fig. 1785 $\frac{1}{2}$.

Hose Clamps.

BRASS.—Fig. 1786.

STEEL "PATENT."—Fig. 1787.



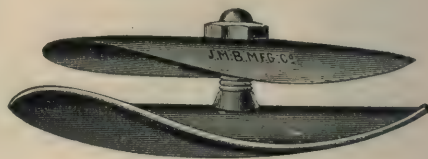
Size of Hose, inches.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Inside Diam. when closed, 3 Ply Hose	$\frac{13}{16}$	$1\frac{1}{16}$	$1\frac{3}{8}$	$1\frac{5}{8}$	$1\frac{15}{16}$	$2\frac{7}{16}$	3	$3\frac{1}{2}$
Fig. 1786. Brass Clamps, Per doz	1.50	1.50	2.00	2.50	3.00	4.00	7.00	10.00
" 1787. Patent Steel 3 Ply Hose.....Per doz	1.00	1.00	1.50	2.50	3.00	4.00	7.00	.....
" 1787. Patent Steel 4 Ply Hose.....Per doz	1.00	1.00	1.50	2.50	3.00	4.00	7.00	.....

Fig. 1788.—THE "CALDWELL" WIRE HOSE STRAP.



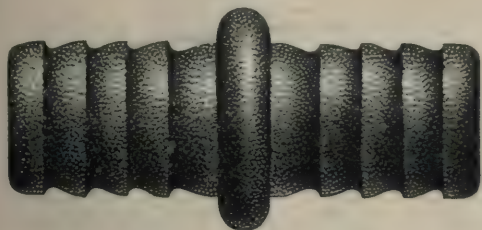
PATENTED MAY 15 1877

Fig. 1789.—CAST BRASS HOSE PATCH.



Size of Hose, 3 Ply.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Length of Strap, inches.....	$3\frac{3}{4}$ $3\frac{3}{4}$	$4\frac{1}{8}$ $4\frac{1}{4}$	5 $5\frac{3}{8}$	6 $6\frac{3}{8}$	$6\frac{3}{4}$ $7\frac{1}{8}$	..	..
Fig. 1788. Caldwell Straps.....Price per doz	40	60	80	1.00	1.20	..	..
" 1789. Cast Brass Hose Patch....."	..	..	2.00	2.50	3.00	3.50	4.00

Hose Goods.

HOSE SPLICE.
Fig. 1790.PLIERS FOR HOSE STRAPS.
Fig. 1791.

Size of Hose	$\frac{1}{2}$	$\frac{3}{4}$	1
Fig. 1790. Hose Splice, Brass	1.20	1.20	2.00
" 1791. Hose Strap Fasteners or Pliers .....	....	....	50

Spraying Nozzles for Fruit Trees.

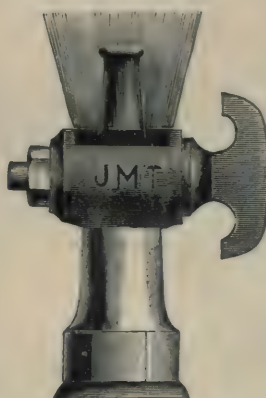
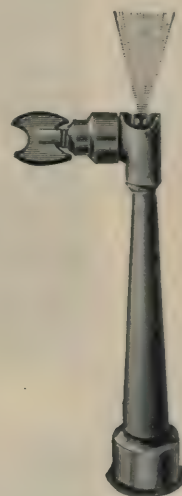
THE "VERMORELL."
Fig. 1792.THE "J. M. T."
Fig. 1793.THE "GEM."
Fig. 1794.THE "CLARKSBURG."
Fig. 1795.GARDEN SYRINGE.
Fig. 1796.

Fig. 1792.	The "Vermorell" Spray Nozzle for $\frac{3}{4}$ Hose	Price per doz.	15.00
" 1793.	The "J. M. T." " " "	" "	9.00
" 1794.	The "Gem" " " "	" "	8.00
" 1795.	The "Clarksburg" " " "	" "	15.00
" 1796.	Garden Syringe, 18 x $1\frac{1}{2}$ inch, Heavy Brass Tube	" "	21.00

Lawn Sprinklers.

The "Champion" Sprinkler.

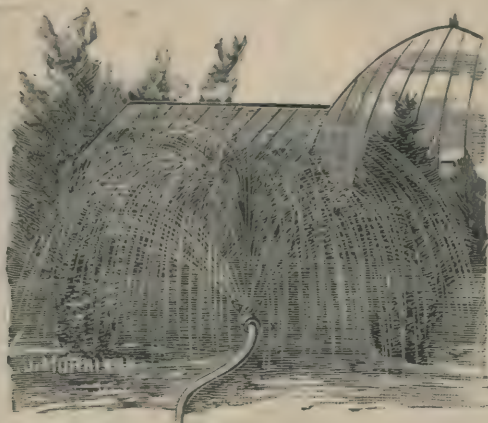
WITH SPIKE TO DRIVE.

Fig. 1800.



THE CHAMPION AT WORK

Fig. 1801.



TOP ONLY, FOR STAND.

Fig. 1802.



Fig. 1800.	Champion Sprinkler, with Spike, Nickel Plated	Price per doz.	9.20
" 1801.	" " Top with Stand Complete. N. Plated..	"	21.00
" 1802.	" " Top for Stand, Nickel Plated.....	"	6.00

Fig. 1803. — WITH SPIKE.

The "Waterwitch" Lawn Sprinkler.

THE WATERWITCH AT WORK.

Fig. 1804.

TOP ONLY, FOR STAND.

Fig. 1805.



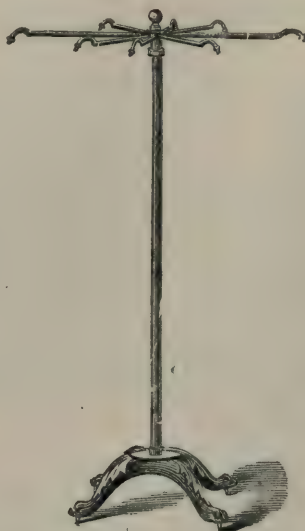
Fig. 1803.	The "Waterwitch" with Spike, Nickel Plated	Price per doz.	7.20
" 1804.	" " Top with Stand Complete, Nickel Plated.	"	21.00
" 1805.	" " Top for Stand, Nickel Plated.....	"	6.00

Lawn Sprinklers.

4 ARM REVOLVING HEAD.
Fig. 1806.



8 ARM REVOLVING HEAD.
Fig. 1807.

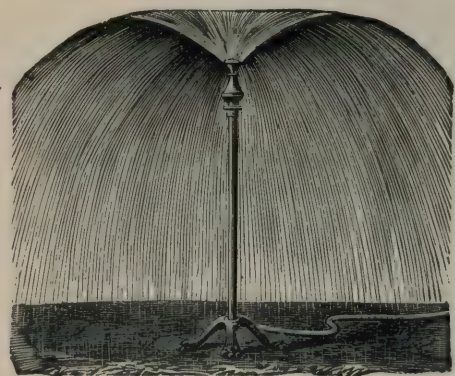


"EXCELSIOR"
Fig. 1808.



						Finished.	N. Plated.
Fig. 1806.	4 Arm Revolving Head	only.....	Price each			4.50	5.50
" "	4 " "	" " Complete with Stand	"			6.00	7.00
" 1807.	8 " "	" only.....	"			6.50	7.50
" "	8 " "	" Complete with Stand	"			8.00	9.00
" 1808.	"Excelsior" Sprinkler,	Top only.....	per doz.			10.00	12.00
" "	" " "	" Complete with Stand	"			25.00	27.00

THE "NOVELTY" LAWN SPRINKLER.
Fig. 1809.



THE "LIMPET" SHELL SPRINKLER.
Fig. 1810.



THE "DAISY."
Fig. 1811.



						Finished.	N. Plated.
Fig. 1809.	The "Novelty" Sprinkler,	Top only	Price each			2.00	2.25
" "	" " "	" with Stand Complete	"			5.00	5.25
" 1810.	The "Limpet" Shell Sprinkler	with Spike ..	"			65	75
" 1811.	The "Daisy" with Spike,	N. Plated.....	"			65	75

Hose Reels

COMBINED LAWN SPRINKLER AND HOSE REEL.
Fig. 1812.



THE "WONDER" HOSE REEL.
Fig. 1813.

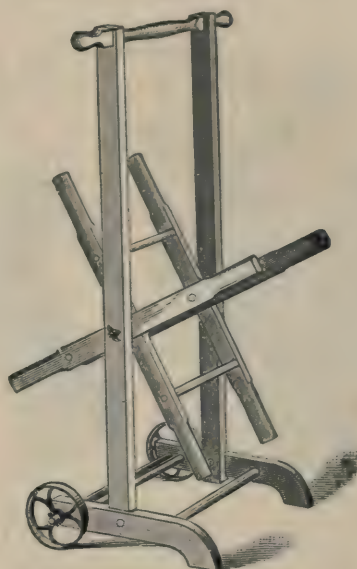
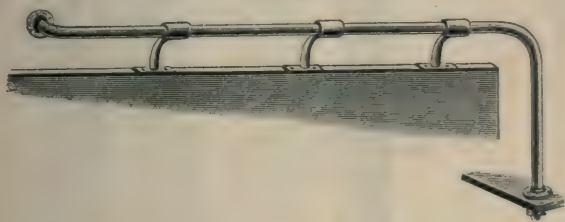


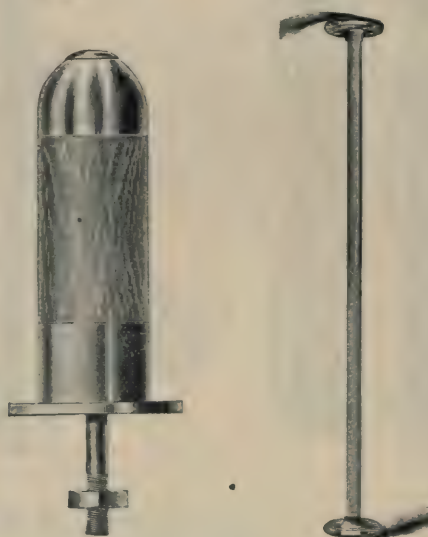
Fig. 1812	Combined Hose Reel and Sprinkler, with Plated Novelty Top.	Price each	7.50
" 1813.	The "Wonder" Hose Reel.....	"	1.50

Fire Department Fittings.

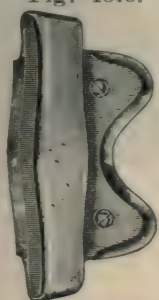
FIRE DEPARTMENT WAGGON RAIL.
Fig. 1814.



PLAY PIPE POST. FIRE HALL SLIDING POLE.
Fig. 1818.



AXE HEAD HOLDER.
Fig. 1815.



PLAY PIPE CLIP.
Fig. 1816.



AXE
HANDLE CLIP.
Fig. 1817.



		Finished.	N. Plated
Fig. 1814.	Fine Department Waggon Rail.....	Prices on Application	.....
" 1815.	Axe Head Holder.....	Price each	1.75
" 1816.	Play Pipe Clip.....	"	2.50
" 1817.	Axe Handle Clip.....	"	2.25
" 1818.	Play Pipe Post.....	"	4.00
" 1819.	{ Fire Hall Sliding Pole, 2 in Brass Tube 25 ft. long with Top and Bottom Flanges.....	Price on Application	.....

Fire Department Hose Fittings.

Siamese Connections.

Y Connections.

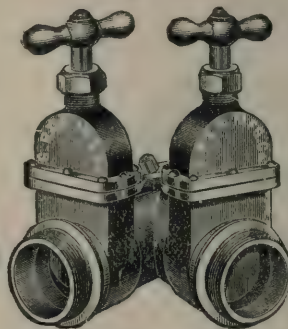
SINGLE HYDRANT AND
DOUBLE HOSE.
Fig. 1820.



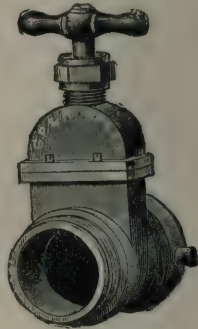
SINGLE HOSE AND
DOUBLE HYDRANT.
Fig. 1821.



SHUT OFF VALVES.
DOUBLE.
Fig. 1822.

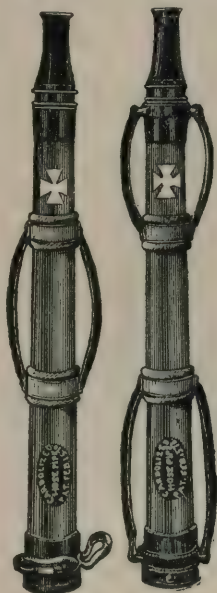


SINGLE.
Fig. 1823.

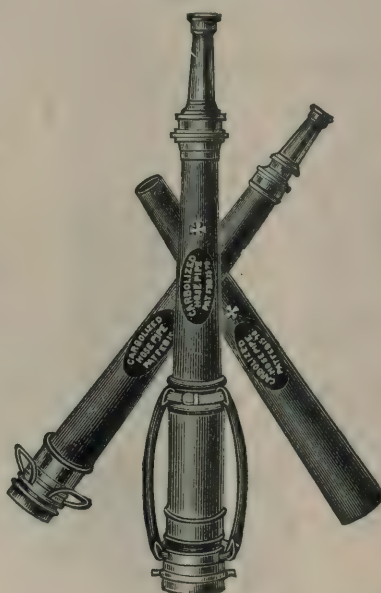


Play Pipe or Hose Branches.

FLEXIBLE RUBBER.
No. 1. No. 2.
Fig. 1824. Fig. 1825.



Nos. 3, 4 and 5.
Fig. 1826.



HEAVY BRASS. CONTROLLING NOZZLE.
Regular.
Fig. 1827.



Fig. 1828.



No. 4.

No. 3.

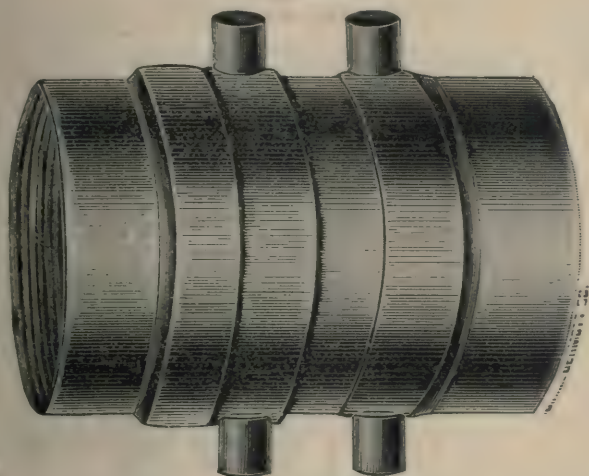
No. 5.

Fig. 1820.	Single Hydrant and Double Hose Connections	Price each	15.00
" 1821.	Single Hose Double Hydrant	"	15.00
" 1822.	Double Shut off Valve for 2½" Hose	"	28 00
" 1823.	Single " " "	"	17.00
" 1824.	No. 1 Flex. Rubber Play Pipe, Brass and Leather Hlds.	"	20.00
" 1825.	" 2 " " " with Leather Handles...	"	20.00
" 1826.	" 3 " " " with " "	"	20.00
" " 4 " " " with Brass "	"	18.00	
" " 5 " " " without Fittings.....	"	10.00	
" 1827.	Regular Heavy Brass Service Pipe with Handles.....	"	12.00
" 1828.	Controlling Nozzle, Finished Brass.....	"	15.00

Fire Department Fittings.

EXPANDING RING COUPLINGS.

Fig. 1829.



SUCTION BASKET.

Fig. 1830.



Size of Hose, Inches.....	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6
Fig. 1829. Finished ..Price per set			2.50	3.00	3.50	6.00	....	....	....	....
" " Expanding Rings " doz.			1.50	1.65	2.80	4.50	....	....	....	....
" 1830. Suction Basket....each	1.00	1.00	1.50	2.60	3.25	5.85	10.50	13.00	19.50	26.40

Grinnell Sprinklers.

Fig. 1831.—No. 1.

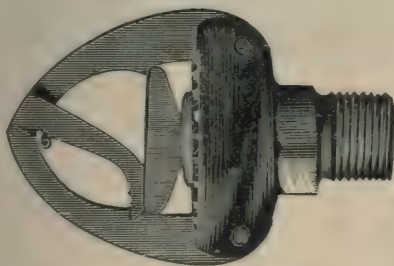


Fig. 1832.—No. 2.

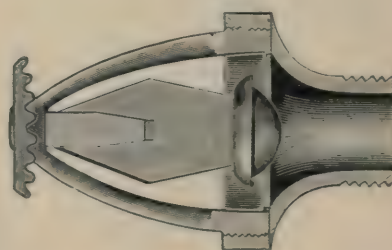


Fig. 1831. No. 1.....	Price per dozen	16.40
" 1832. No. 2.....	" "	21.00

Patent Ring Expander.

Fig. 1833.



Size of Expanding Ring.....	1	1 1/4	1 1/2	2	2 1/2
Price each	10.00	11.50	11.50	18.00	18.00

Miscellaneous Brass Goods.

For Plumbers, Dairy, House and General Purposes not Enumerated in any of the Foregoing Departments.

WATER FILTERS.

The "Superlative" Patent Filters.

Fig. 1834.

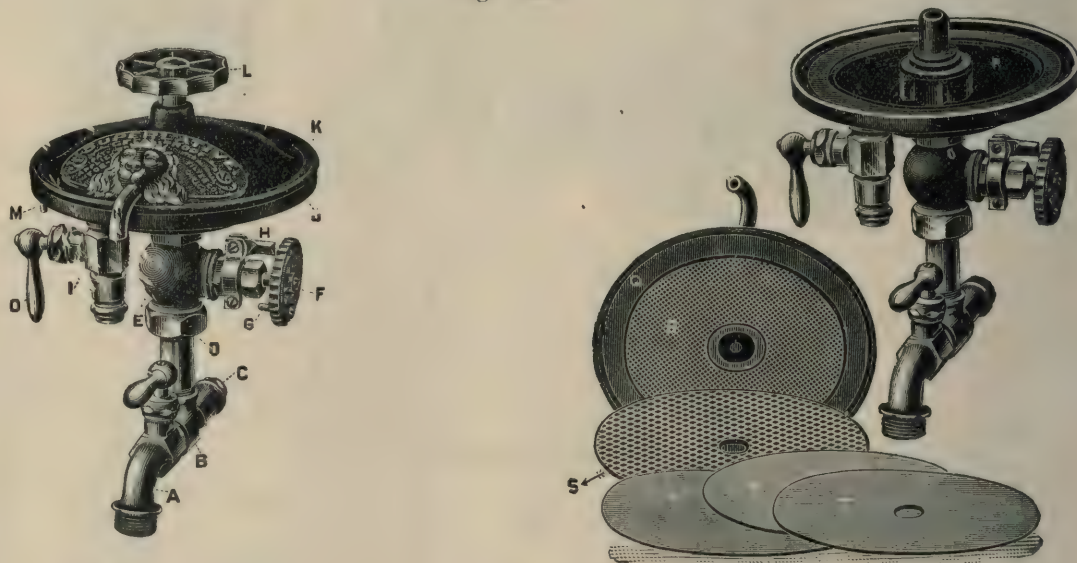


Fig. 1835.



Eminent authorities pronounce the "Superlative" as the only absolute Germ Proof Filter in the world.

Price each, Nickel Plated.....\$15.00

A full description of Filter with mode of operating will be sent with each Filter.

Sole Manufacturers for Canada.

Water Filters.

REVERSIBLE FILTER.
Fig. 1836.



THE "CONRADER" PATENT FILTER.
Fig. 1837.



Reversible Filter.

	Finished.	N. Plated.
Fig. 1836 Price per dozen	15.00	17.00

The "Conrader" Patent Filter.

	N. Plated.
Fig. 1837 Price each	9.00

The "Schram" Patent Water Guard and Filter.

Fig. 1838.



Without Guard.



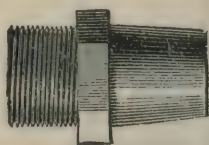
With Guard.

For Plain Bibb, N. Plated.....	Price per dozen	6.00
" Hose " "	" "	9.00

Soldering Nipples and Unions.

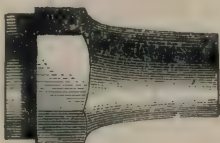
For Lead and Iron Pipe.

Fig. 1839.



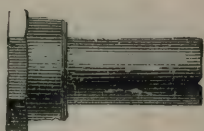
Male End.

Fig. 1840.



Female End.

Fig. 1841.

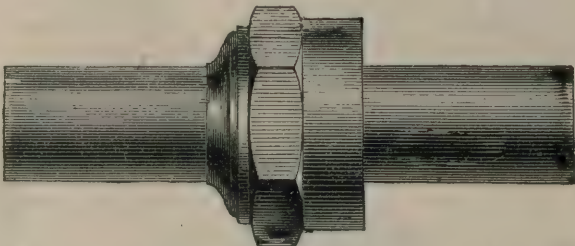


Union

Size, inches.....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Fig. 1839. Nipple, Male End.... Per doz.	1.75	2.25	2.50	3.00	5.00	7.50	10.00	14.00	20.00
" 1840. Nipple, Female End.. "	1.75	2.25	2.50	3.00	5.00	7.50	10.00	14.00	20.00
" 1841. Union, Straight Tail. "	2.25	2.75	3.25	4.00	6.00	8.50	12.00	18.00	....
" 1841. Union, Bent Tail..... "	3.00	3.75	4.75	6.50	9.00	11.50	17.00	24.00	....

Plain Coupling for Lead and Copper Pipe.

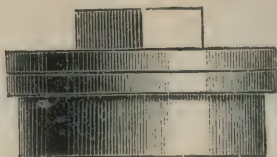
Fig. 1842.



Size, inches.....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Plain Face... Per doz.	3.00	3.50	4.00	5.00	6.50	10.00	15.00	20.00	30.00	40.00
Ground Face. "	4.00	4.50	5.00	6.50	8.00	12.00	18.00	24.00	36.00	48.00

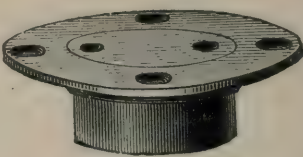
TRAP SCREW.

FIG. 1843.



DECK SCREW.

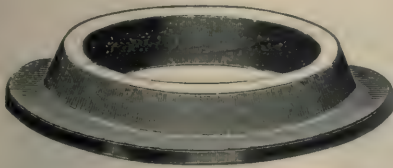
Fig. 1844.



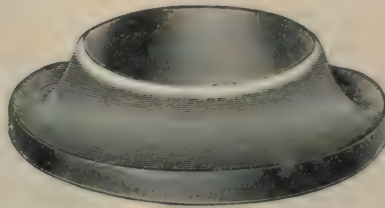
Size, inches.....	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Fig. 1843. Trap Screw. Per doz.	2.50	3.00	4.00	7.00	10.00	15.00	18.00	20.00	27.50	42.50
" 1844. Deck Screw "	10.00	12.00	14.00	18.00	24.00	33.00	....	....	....	....

Rubber Washers.

BASIN WASHERS.
Fig. 1845.



SINK COUPLING WASHER.
Fig. 1846.



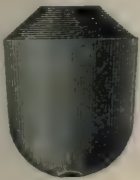
TANK VALVE.
Fig. 1847.



	Fig. 1845.	Fig. 1846.	Fig. 1847.	
			2 inch.	4 inch.
Price per dozen	50	1.25	1.20	3.00

Bibb, Hose and Boiler Washers.

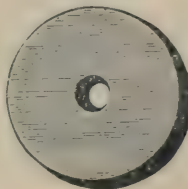
FULLER BIBB
WASHER.
Fig. 1848.



COMPRESSION BIBB & HYDRANT WASHERS.
BOSS.
Fig. 1849.



FIBRE.
Fig. 1850.



HOSE COUPLING.
RUBBER.
Fig. 1851.



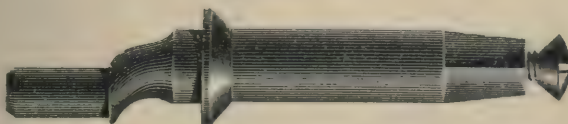
MILLBOARD.
Fig. 1852.



Size		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. 1848. Fuller Bibb Washers.....	Price per dozen	....	.24	.30	.30	.40
" 1849. Comp. " " Boss....	" per 100	1.50	1.50	1.60	2.00	2.50
" 1850. " " " Fibre ...	" "	1.25	1.25	1.35	1.50	2.00
" " " " Hot Water	" per dozen	2.00	2.00	2.00	2.50	3.00
" 1851. Hose Coupling, Rubber.....	" "	....	....	....	.15	.15
" 1852. Boiler Millboard.....	" per 100	....	....	....	....	.30
" Hydrant Leather	" per dozen	....	....	....	....	.50

Fuller Bibb Trimmings.

ECCENTRIC SPINDLE.
Fig. 1853.



STEM WITH VALVE.
Fig. 1854.



Size, Inches.....		$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	1
Fig. 1853. Eccentric Spindle.....	Price per dozen	3.00	3.00	4.00	6.00
" 1854. Stem and Valve.....	" "	3.00	3.00	4.00	6.00

Brass Thimbles or End Ferules.

STRAIGHT.
Fig. 1855.



BENT.
Fig. 1856.



REDUCING.
Fig. 1857.



WITH HUB.
Fig. 1858.



Brass Thimbles, Light Pattern.

Size of Soil Pipe, Inches	2	3	4
Length of Light Thimbles, Inches	3½	3½	3½
Weight of Light Thimbles, lbs.....	¾	1	1½
Fig. 1855. Straight Price per doz.	2.40	2.40	4.80

Brass Thimbles, Medium Pattern.

Size of Soil Pipe, Inches	2	3	4
Length of Medium Thimbles, Inches	4	4	4
Weight of Medium Thimbles, lbs.....	1	1½	2
Fig. 1855. Straight..... Price per doz.	3.40	4.80	6.80

Brass Thimbles, Toronto Standard or Heavy Pattern.

Size of Soil Pipe, Inches.....	2	3	4
Length of Heavy Thimbles, Inches	4¼	4¼	4¼
Weight of Heavy Thimbles, lbs.....	1½	1¾	2½
Fig. 1855. Straight Price per doz.	4.50	5.50	7.50
“ 1856. Bent..... “ “	5.80	7.50	12.50
“ 1857. Reducing { 2 x 1¼ “ “	5.00	....	....
“ { 2 x 1½ “ “	5.50	....	....
“ { 3 x 1½ ..... “ “	....	7.50	....
“ 1858. With Hub..... “ “	8.00	12.00	16.00

Brass Ferrules with Trap Screws.

WITH VENTILATING COUPLINGS.

Fig. 1859.

Fig. 1860.



Fig. 1861.

Fig. 1862.

Brass Ferrules with Trap Screws and Ventilating Couplings.

Size of Soil Pipe, Inches	2	3	4	5	6
Fig. 1859. Regular.....Price per doz.	21.00	27.00	36.00	60.00	81.00
" " Extra Heavy & Extra Long "	25.00	33.00	48.00	66.00	87.00
" 1860. Regular....."	23.00	29.00	38.00	62.00	83.00
" " Extra Heavy & Extra Long "	27.00	35.00	50.00	68.00	89.00

Fig. 1861.—Brass Ferrules with Trap Screws, Heavy Pattern.

Size of Soil Pipe, Inches	2	3	4	5	6
Regular.....Price per doz.	10.00	18.00	24.00	48.00	69.00
Extra Long and Extra Heavy .. "	14.00	24.00	36.00	54.00	75.00

Fig. 1862.—Brass Ferrules with Trap Screws, Medium and Light Pattern.

Size of Soil Pipe, Inches	2	3	4	5	6
Medium.....Price per doz.	7.50	10.50	18.50	25.00	40.00
Light....."	6.50	9.00	15.00	22.00	36.00

Sewer Valves, Etc.

FOR EARTHEN SOIL PIPE.

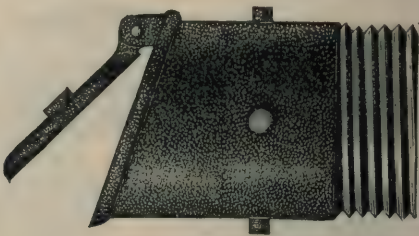
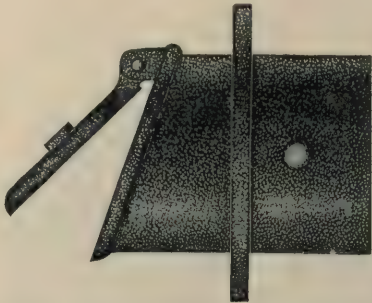
FOR CAST IRON SOIL PIPE.

FOR WROT IRON PIPE.

Fig. 1863.

Fig. 1864.

Fig. 1865.



Size	2½	3	4	5	6	7	8	9
Fig. 1863. For Earth Soil Pipe..each	2.00	2.50	3.50	8.00	10.00	15.00	18.00	24.00
" 1864. " Cast Iron " .. "	....	3.00	....	5.50	....	....	....	....
" 1865. " Wrot Iron Pipe .. "	....	....	5.50	....	....	....	....	....

Sewer Grating with Back Pressure Valve.

Fig. 1866.



Brass Stench Trap.

Fig. 1867.



Fig. 1866. Polished Grating.....	Price each	2.25
" 1867. " "	"	3.75

Square Brass Trap Door.

Fig. 1868.



Stevens' Urinal Grating.

Fig. 1869.

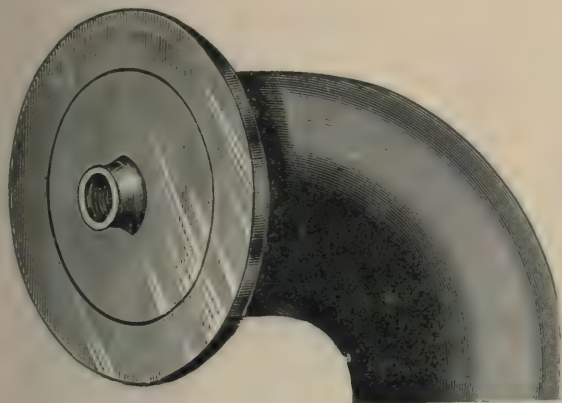


Fig. 1868. Polished Brass, 8 x 7 inch.....	Price each	3.50
" 1869. " "	"	.40

Dairy Fittings.

Whey Can Plug.

Fig. 1870.



Creamery Bibb.

COMPOSITION.

Fig. 1871.

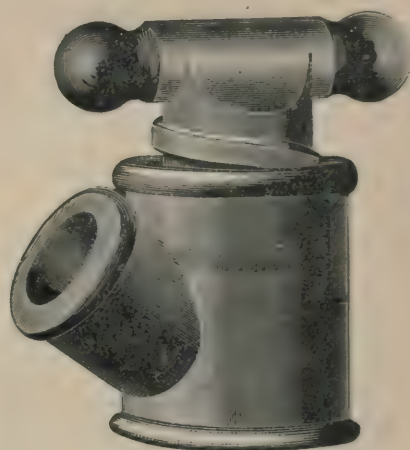


Fig. 1870. Whey Can Plug.....	Price each	2½ in.	2.00—3 in.	2.50
" 1871. Creamery Bibb.....	Price per dozen			1.80

Cream Separator Bibb.

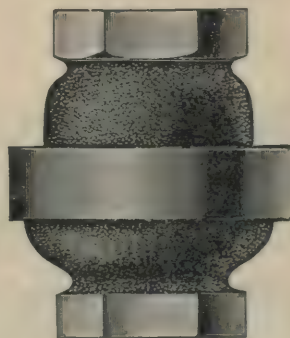
BRASS.

Fig. 1872.



Brass Strainer.

Fig. 1873.



Brass Whey Valve

Fig. 1874.



Fig. 1872. Cream Separator Bibb.....	{ 3 in.	Price per dozen	12.00
" 1873. Brass Strainer, ¾ x ½ inch.....	{ 12 in.	" "	14.50
" 1874. Brass Whey Valve, 2 inch.....		Price each	3.20
" " " " 3 ".....		"	6.00

Miscellaneous.

Improved Test Pump.
FOR AIR OR WATER.

Fig. 1875.



Johnston Force Pump.

Fig. 1876.



Improved Blast Pressure Gauge.

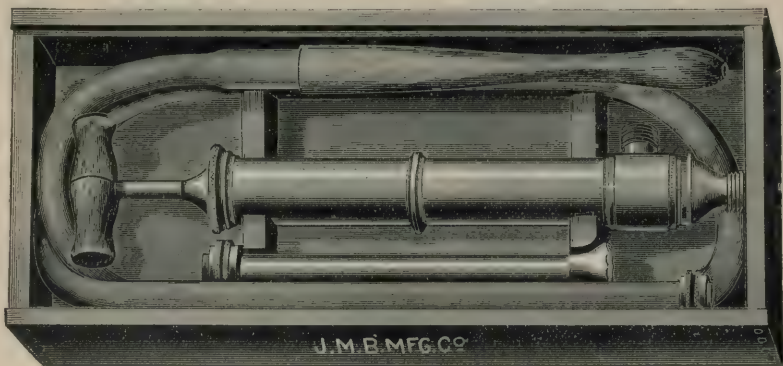
Fig. 1877.



Fig. 1875.	Improved Test Pump	Price each	18.00
" 1875.	Johnston Force Pump	"	5.50
" 1876.	Improved Blast Pressure Gauge.....	"	16.00

Veterinary Pump with Fittings.

Fig. 1878.



Probang Nozzles.

Fig. 1879.



Fig. 1880.



Fig. 1878.	Veterinary Pump, Finished Brass	Price Complete in Case	10.00
" 1879.	Probang Nozzles	.....Price per set	1.50
" 1880.	" "		

Miscellaneous.

Marking Roller.

FOR GRANOLITHIC PAVEMENTS.

Fig. 1881.



Marking Stamp.

FOR GRANOLITHIC PAVEMENTS.

Fig. 1882.

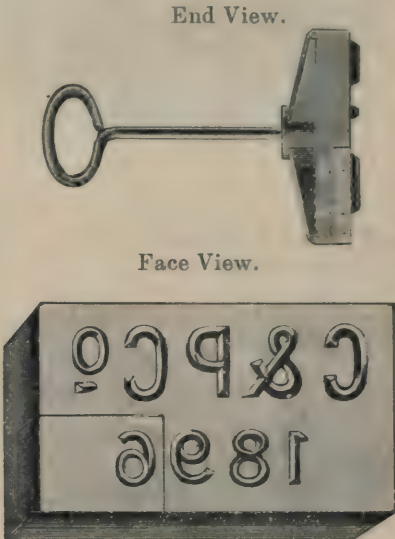


Fig. 1881.	Marking Roller	Price each	30.00
" 1882.	" Stamp	"	10.00

Drinking Cup.

No. 1.—Fig. 1883.



Drinking Cup.

No. 2.—Fig. 1884.

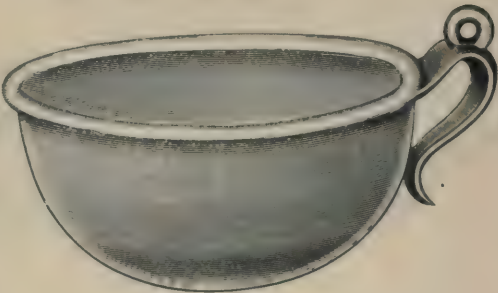
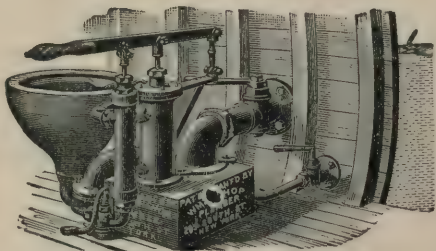


Fig. 1883.	Brass, Nickel Plated	Price each	2.00
" 1884.	" " "	"	2.00
" "	Aluminum	"	2.50

Yacht Fittings.

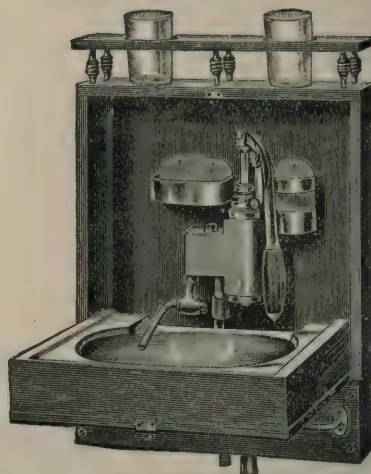
Water Closet.

Fig. 1885.



Wash Basin.

Fig. 1886.



Combined Eye Bolt and Cleat.

Fig. 1887.



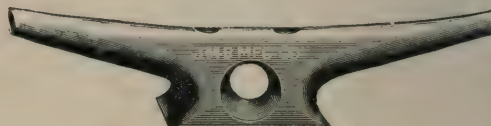
Brass Stauchion.

Fig. 1888.



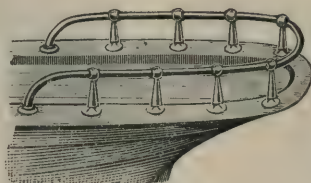
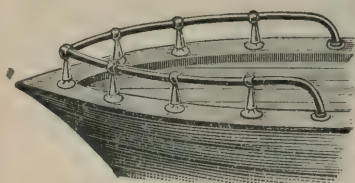
Cleat.

Fig. 1889.



Brass Railing.

Fig. 1890.



Skylight Cover.

Fig. 1891.



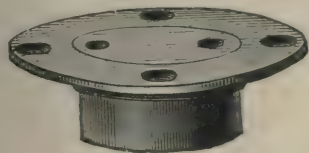
Fig. 1885.	Pat. Water Closet, No. 1, with $1\frac{1}{2}$ in. Supply and 3 in. Discharge Pump	136.00
" "	" " " 2, " $1\frac{3}{8}$ " " $2\frac{1}{2}$ " " "	81.00
" 1886.	" Wash Basin " 1, $23\frac{1}{2}$ x 19 x 6	78.00
" " "	" " " 2, 19 x 15 x $5\frac{1}{2}$	67.00
" 1887.	Combined Eye Bolt and Cleat	.....
" 1888.	Brass Stauchion	.....
" 1889.	Deck or Rail Cleat	.....
" 1890.	Brass Railing	.....
" 1891.	Skylight Cover	.....

..... Prices of these on Application

Yacht Fittings.

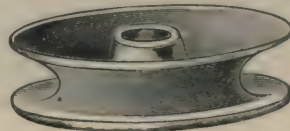
Brass Deck Screw.

Fig. 1892.



Brass Sheave.

Fig. 1893.



Brass Turn Buckles.

Fig. 1894.



**Brass Rudder Post
Head.**

Fig. 1895.



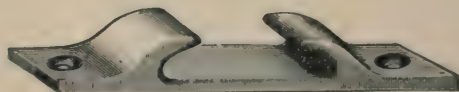
**Brass Belaying
Pin.**

Fig. 1896.



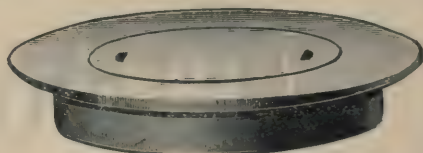
Brass Chock.

Fig. 1897.



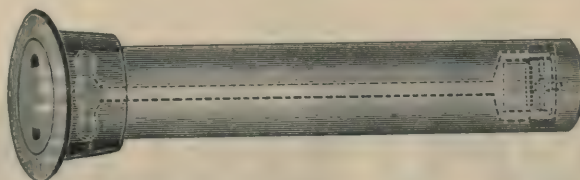
Stove Pipe Plate.

Fig. 1898.



Suction Pump.

Fig. 1899.



Prices for all the above on Application.

Name Plates.

Fig. 1900.

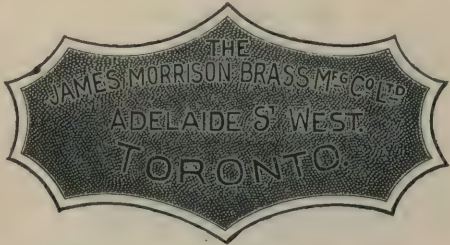


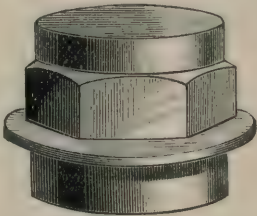
Fig. 1901.



		Polished.	Nickel Plated.
Fig. 1900	Price each	50	60
" 1901	"	50	60

Carriage Caps.

Fig. 1902.



Brass Tags.

Fig. 1903.



		Polished.	N. Plated.
Fig. 1902. Carriage Cap	Price each	2.25	2.75
" 1903. Brass Sheet Metal Tags, Numbered.....	per doz.	....	.75

Brass Letters.

FOR GRANOLITHIC PAVEMENTS.

Fig. 1904.

TORONTO

Fig. 1905.

ONTARIO

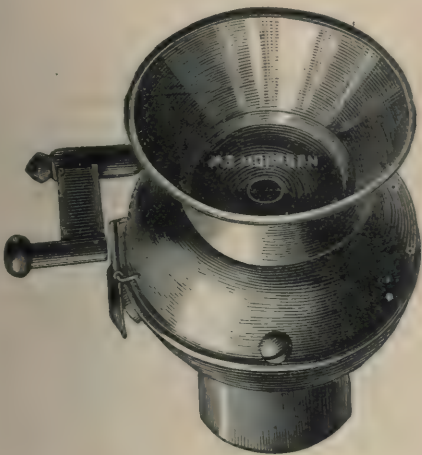
Fig. 1906.

CANADA

Price 45c. per lb. Polished on Face.

Speaking Tube Whistles.

Fig. 1907.



Jingle Bells:

Fig. 1908.

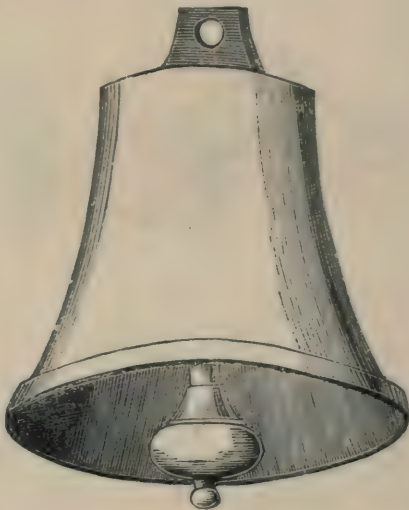


Fig. 1907.	Globe Whistles, N. Plated	Price each	1.13
" 1908.	Jingle Bells, 4, 6, 8, 10, 12, 16 oz	Price per lb.	.60

Copper and Iron Pipe Steam Coils.

Fig. 1909.



Steel Springs for Safety Valves.

Fig. 1910.



Fig. 1909.—Copper and Iron Pipe Steam Coils.

Size of Pipe.....	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Wrought Iron Pipe.....	.30	.45	.60	.80	1.10
Copper Pipe, I. P. Size.....	1.10	1.50	2.00	2.50	3.25

NOTE.—The above prices for Coils are only approximate. Prices of Coils will be furnished on application. Specifications for Copper Coils should state steam pressure and dimensions and shape of Coils.

Fig. 1910. **Steel Springs**—Prices on application.

Brass Knobs, Brass Machine Screws, Brass Bolts and Nuts and Fittings.

Made from Rod Brass.

Fig. 1911.—**Brass Knobs.**

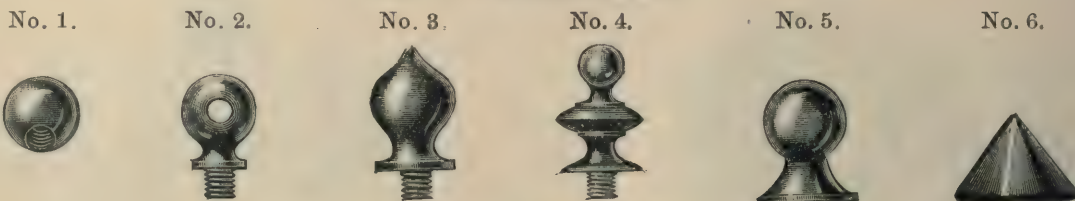


Fig. 1912.—**Brass Screws.**

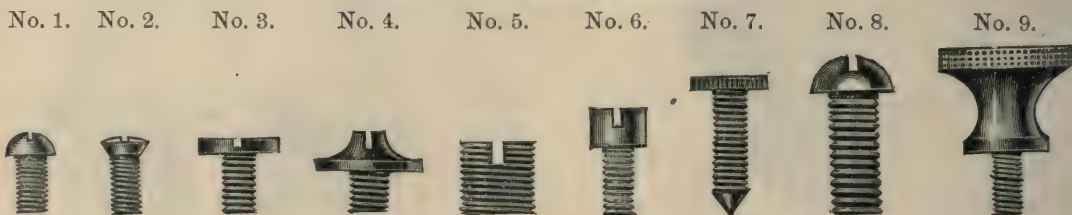


Fig. 1913.—**Hexagon Nuts.**

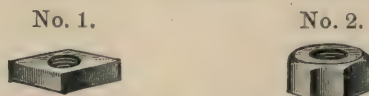


Fig. 1914.—**Brass Bolts and Nuts.**

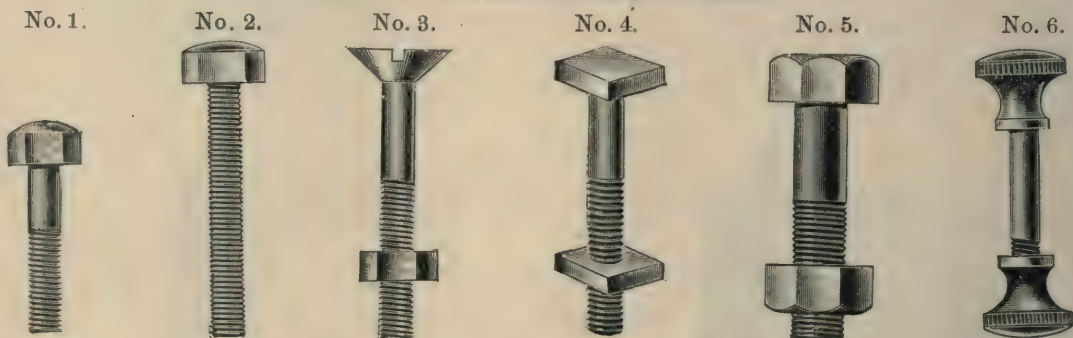


Fig. 1915.—**Porcelain Handle Fitting.**



Fig. 1916.—**Long Brass Screws.**



Fig. 1917.—**Screw Eye.**

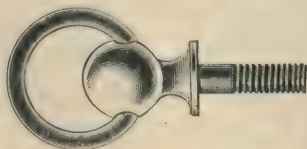


Fig. 1918.—**Hose Tips.**

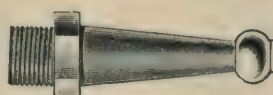
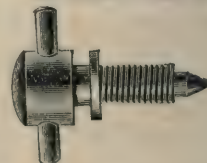


Fig. 1919.—**Brass Handle.**

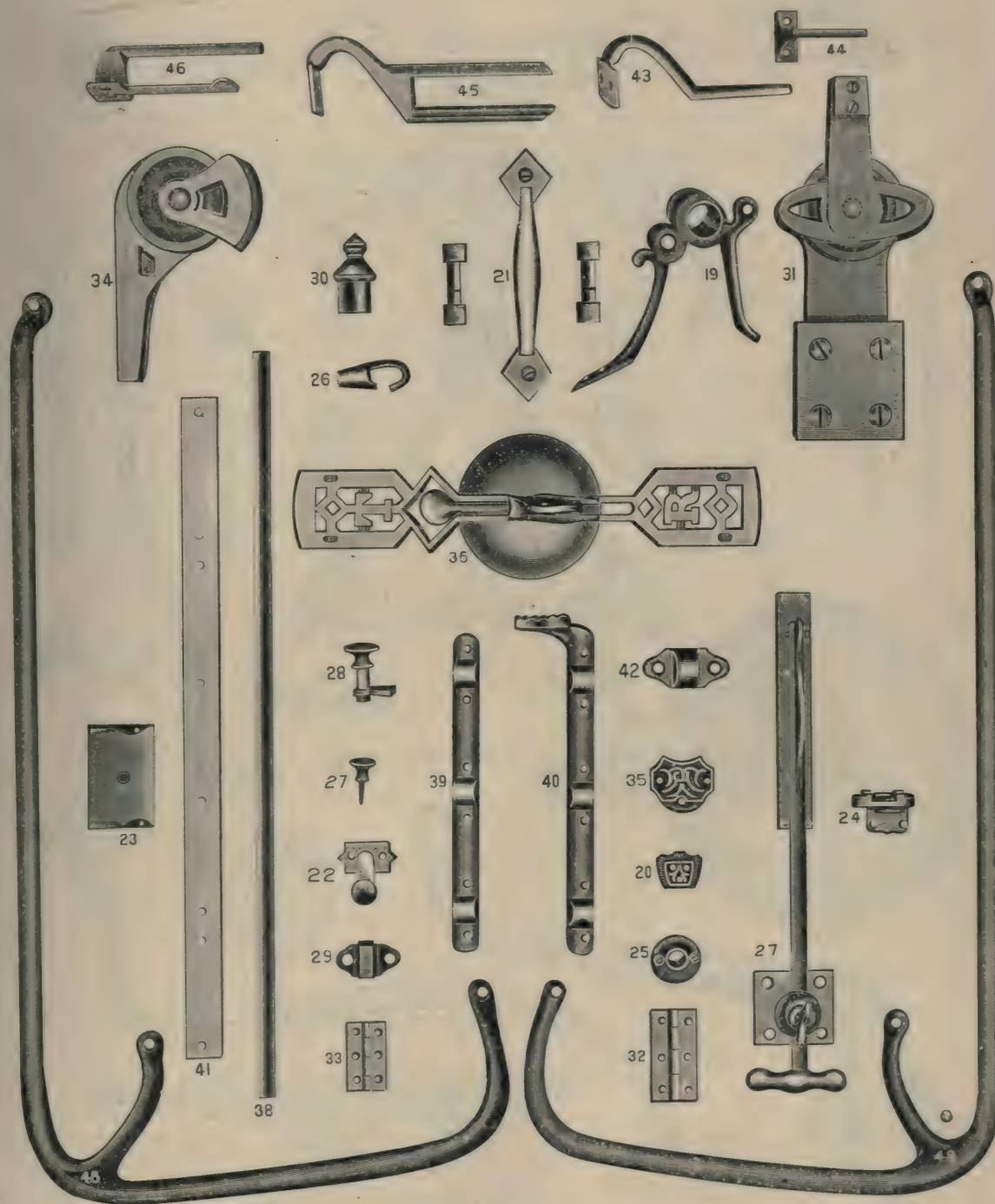


The above are a few of the articles we make from Rod Brass—other kinds made to order. Prices on Application.

Street Railway Fittings.

For Closed Cars.

Fig. 1920.

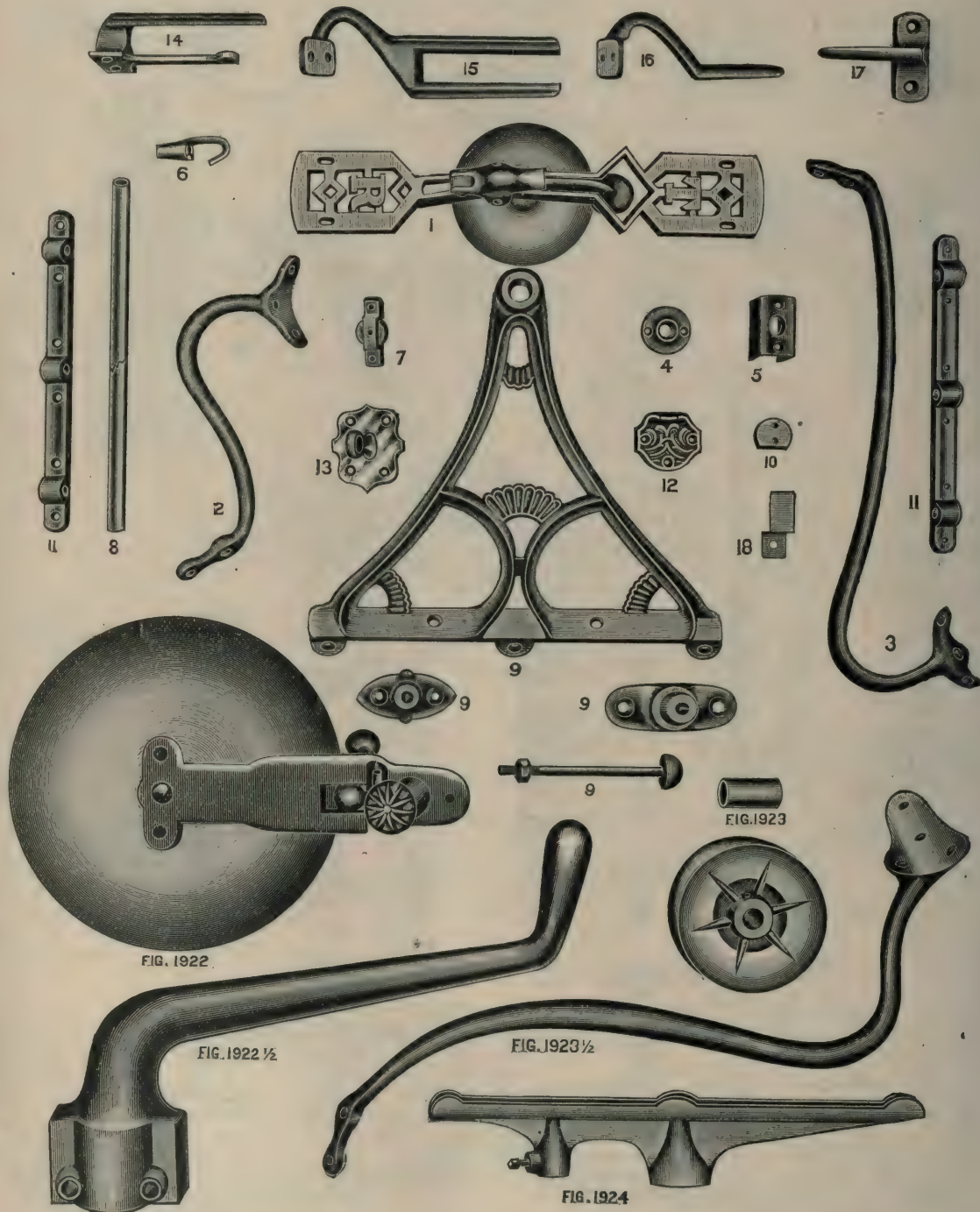


For Particulars see page 539.

Street Railway Fittings.

For Open Cars.

Fig. 1921.



For Particulars see page 539.

DESCRIPTION AND PRICES OF Street Railway Fittings.

Fig. 1920.

For Closed Cars.

Fig. 1921.

For Open Cars.

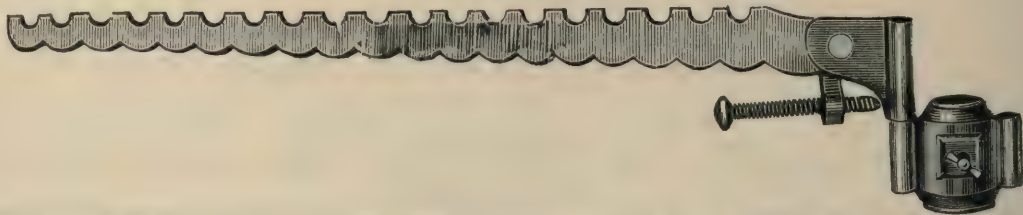
No.	Description.	No. of pieces to Set.	Price each.	No.	Description.	No. of pieces to Set.	Price each.
19	Pole Bracket.....	14	40	1	Bell and Frame.....	4	1.00
20	Sash Strap Pull	32	05	2	Hand Rail Brackets, small..	12Rt. 12Lt.	40
21	Door Handles and Bolts....	8	58	3	“ “ “ large..	4Rt. 4Lt.	60
22	Sign Fasteners.....	4	14	4	Bell Cord Bushings	8	04
23	Sash Springs.....	60	06	5	Reversible Seat Bumpers...	24	18
24	Ventilator Hinges	28	18	6	Bell Cord Snaps.....	4	06
25	Bell Cord Bushings	12	04	7	Anti-Rattler Wheels	12	18
26	Bell Cord Snaps.....	4	06	8	Window Guard Tubes 6½' 6"	6	1.60
27	Screw Knobs.....	2	06	9	Reversible Seat Ends, compl.	12	1.35
28	Turn Knobs	12	10	10	Sash Strap Pull	6	03
29	Anti Rattler Wheels	10	18	11	Guard Rail Brackets	6	25
30	Pole Knobs	4	15	12	Sash Lifts for Sash	6	08
31	Top Door Wheels	4	1.26	13	Bell Cord Brackets	12	12
32	Hinges ¾" x 2¾"	16	09	14	Sign Arms.....	2 of each	1.40 per set
33	“ ½ x 2	4	07	15			
34	Side Door Wheels	4	84	16			
35	Sash Lifts	60	08	17	Sign Fasteners	6	each 14
36	Bells and Frames.....	4	1.00	18			
37	Deck Light Openers	4	1.45				
38	Guard Rail Tubes 1' 9" long	12	42				
39	“ “ Brackets.....	6	25				
40	“ “ “ with Step	2	45				
41	Door Strips 19½" long	12	14				
42	Gate Pieces.....	4	15				
43	Sign Arms	2 of each	1.40 per set				
44							
45							
46							
48	Body Grab Handles.....	4	2 50				

Fig. 1922.	Steel Foot Gong	price each	2.25
“ 1922½.	Brake Handle	“	2.50
“ 1923.	Trolley Wire Wheel, without Bushing	“	1.35
	Bushings only.....	“	.38
“ 1923½.	Seat Bracket	“	1.10
“ 1924.	Trolley Wire Clip	“	.30

Window Display Fixtures.

Slide Bracket, with Rack and Adjustable Set Screw.

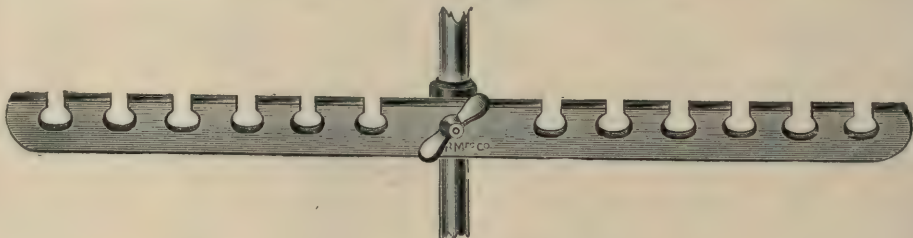
Fig. 1925.



Number of Racks in Slide.....	1	2	3
Slide and Racks Finished, Polished and Lacquered.... Each	1.67	2.90	4.20
Extra Racks, Polished and Lacquered..... "	1.25	....	....

Double Bracket, with Slide and Adjustable Set Screw.

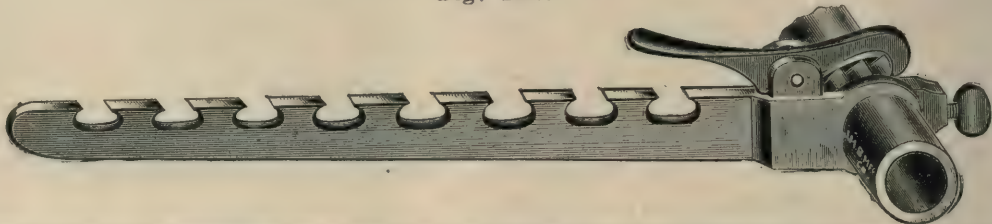
Fig. 1926.



Length of Bracket, Inches.....	10	12	15	18
Polished and Lacquered..... Price each	1.25	1.50	1.75	2.00

Adjustable Bracket with Spring Catch.

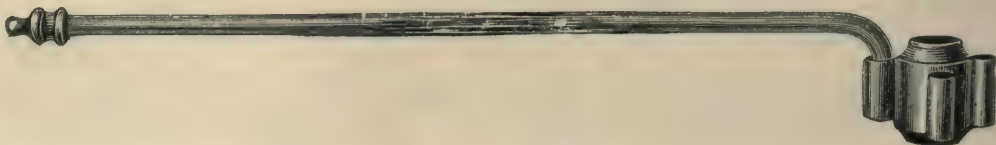
Fig. 1927.



Length of Bracket, Inches.....	12	15	18
Polished and Lacquered.....	1.50	1.75	2.00

Slide Bracket with Plain Arm and Knob.

Fig. 1928.

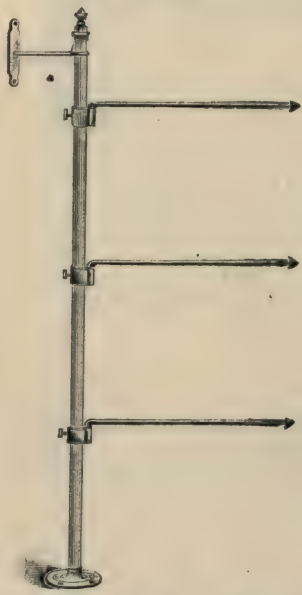


Length of Arm, Inches.....	12	14	16	18
Finished, Polished and Lacquered, with 1 Arm and Slide... Each	67	75	90	95
" " " " 2 " " " "	95	1.05	1.20	1.50
" " " " 3 " " " "	1.20	1.40	1.60	2.00
Extra Arms with Knobs, Finished, Etc..... "	27	34	40	53

Window and Display Fixtures.

Stand, with Sliding Brackets and Plain Arms.

Fig. 1932.



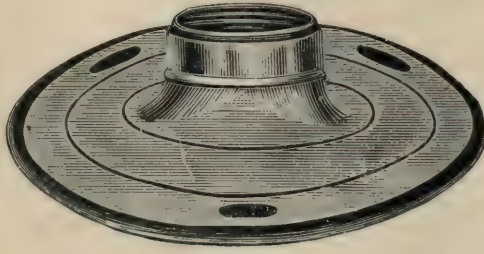
Stand, with Sliding Brackets and Horizontal Bars.

Fig. 1933.



Brass Flange for Standards.

Fig. 1934.



Brass Knobs.

Fig. 1935.



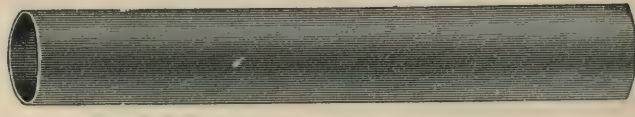
Bracket Slides.

Fig. 1936.



Brass Tube.

Fig. 1937.

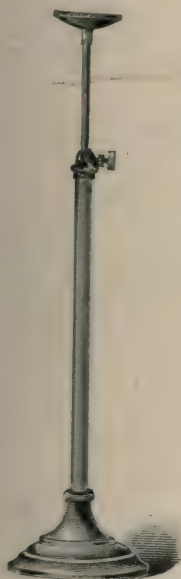


Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	
Fig. 1934. Flanges, Finished ..	Price each	....	....	30	35	35	50	75
“ “ “ N. Plated..	“	....	....	40	45	45	65	90
“ 1935. Knobs, Finished....	“	08	10	12	20	24	30	40
“ “ “ N. Plated...	“	12	15	18	27	32	40	50
“ 1937. Brass Tube, Polished	per foot	12	15	20	24	28	32	50
“ “ “ N. Plated	“	20	24	30	35	40	45	65
“ 1936. Slides, Finished	} .. each	1 Arm.		2 Arm.		3 Arm.		
“ “ For $\frac{7}{8}$ in. or 1 in. Tube		36		40		44		

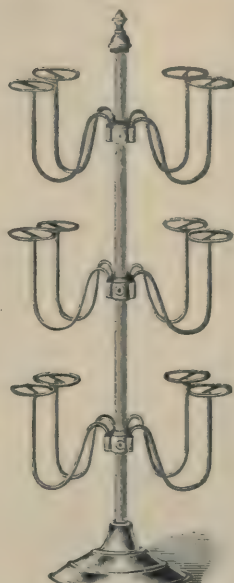
Window and Display Fixtures.

Display Stands.

EXTENSION HAT STAND.
Fig. 1938.



MILLINERY STANDS.
Fig. 1939.



GENTS' FURNISHINGS STAND.
Fig. 1940.

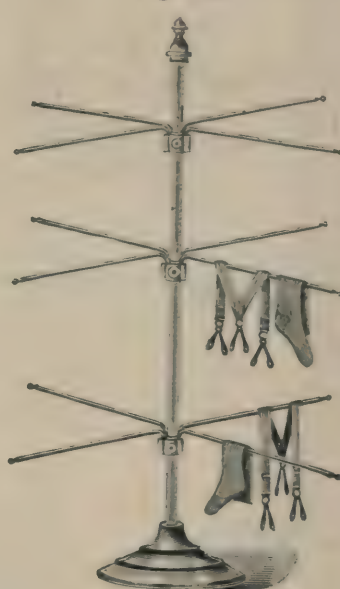


Fig. 1938.—Hat Stand.

Extension, Inches	8 to 14	14 to 26	20 x 38	26 x 50
Size of Telescope Tube	$7/16 \times 5/16$	$7/16 \times 5/16$	$1/2 \times 3/8$	$1/2 \times 3/8$
Polished Brass.....Price each	75	85	95	1.05
Nickel Plated.....“	85	95	1.05	1.15

Fig. 1939.—Millinery Stand.

	Polished.	N. Plated.
12 Branch Millinery Stand, 4 feet High.....Price each	10.00	12.00

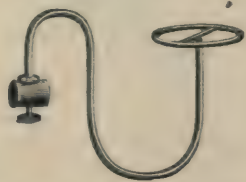
Fig. 1940.—Gents' Furnishings Stand.

	Polished.	N. Plated.
12 Branch Gents' Furnishings Stand.....Price each	7.50	9.00

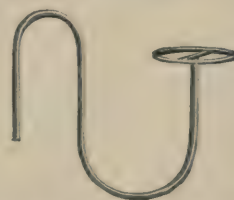
STRAIGHT ARM WITH SOCKET.
Fig. 1941.



BENT ARM WITH SOCKET.
Fig. 1942.



BENT ARM WITHOUT SOCKET.
Fig. 1943.



	Polished.	N. Plated.
Fig. 1941. Straight Arm with Socket for Hat Stand.... Price per doz.	5.00	6.00
“ 1942. Bent “ “ “ “ “	7.50	9.00
“ 1943. Bent Arm without Socket “ “ “ “	5.00	6.50

Window and Display Fixtures.

For Boots and Shoes, Millinery or Gents' Furnishings.

Fig. 1944.

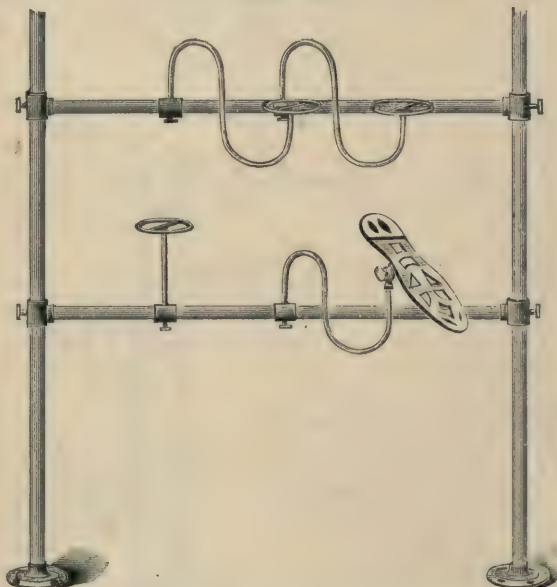
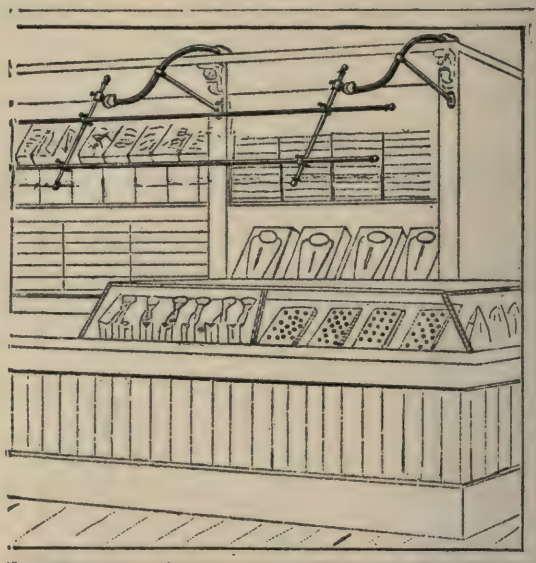


Fig. 1945.



These Fixtures can be made any height and width, with any number of arms. Cross bars and Standards will be made in sizes proportionate to the width and height. Prices on application.

This Fixture is designed for showing goods over counter in store where cornices and shelving are suitable for its use. Prices on application.

Two Wheel Step Ladder.

Fig. 1945½.

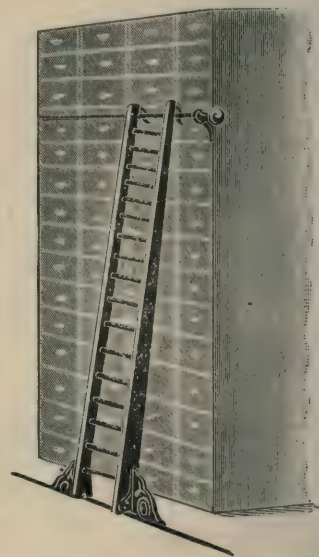
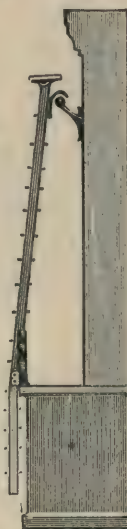
LADDER BRACKET.



POLE BRACKET.



LADDER HOOK.



Bent Ladder Track on Shelf. Straight Ladder, Track on Floor.

These Ladders are strong and well made in Oak, natural finish, with Japanned or Nickel Plated Mountings, and are arranged to roll on a light metal track, either on the base shelf or on the floor. The top is fitted with two iron hooks, which extend over and partly around a wooden pole (fastened to the shelving with metal brackets) preventing the Ladder from tilting when in use. They take up less room, are considerably quicker, easier and safer than an ordinary Ladder and should be in all stores where time and labor is a consideration.

Price per Set of (2) Wheels and Hooks, Japanned	6.00
Pole Brackets, Rough	Price per dozen 3.00
“ “ Finished	“ “ 4.50

Prices of Ladders and Poles on Application.

Brass Rails and Fittings.

Fig. 1946.



Fig. 1947.

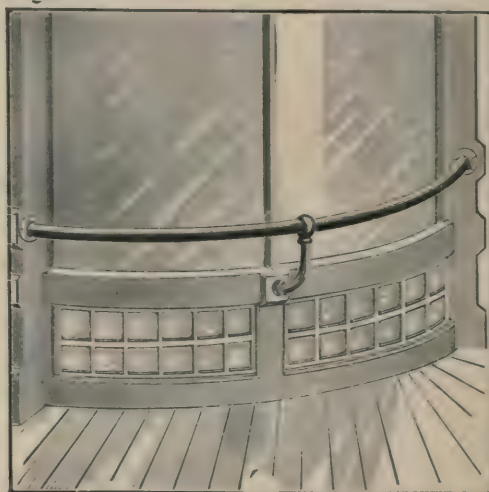
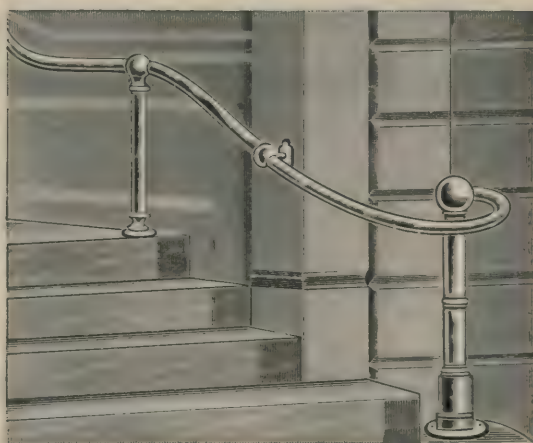


Fig. 1948.



The above are a few designs of Railings and Fittings. They are made any size or shape required, and prices will be given on receipt of Specifications.

Fig. 1949.

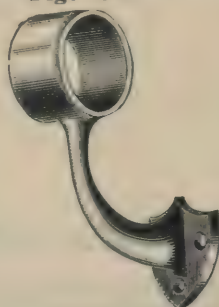
Fig. 1950.

Fig. 1951.

Fig. 1952.

Fig. 1953.

Fig. 1954.



Description		Price each	Finished.	Nickel Plated.
Fig. 1949.	For 1½ Brass Tube	2.25	2.25	2.50
" 1950.	" 2 "	2.00	2.00	2.20
" 1951.	" 2½ "	3.00	3.00	3.50
" 1952.	" 1½ "	2.00	2.00	2.20
" 1953.	" 1½ "	2.00	2.00	2.20
" 1854.	" 1½ "	3.00	3.00	3.50

NOTE.—These can be made for any size Tube. Prices in proportion.

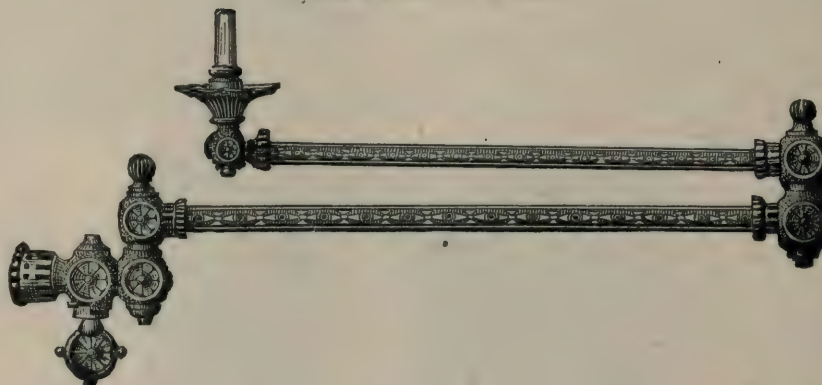
Gas Fitters' Goods.

Staple Gas Brackets.

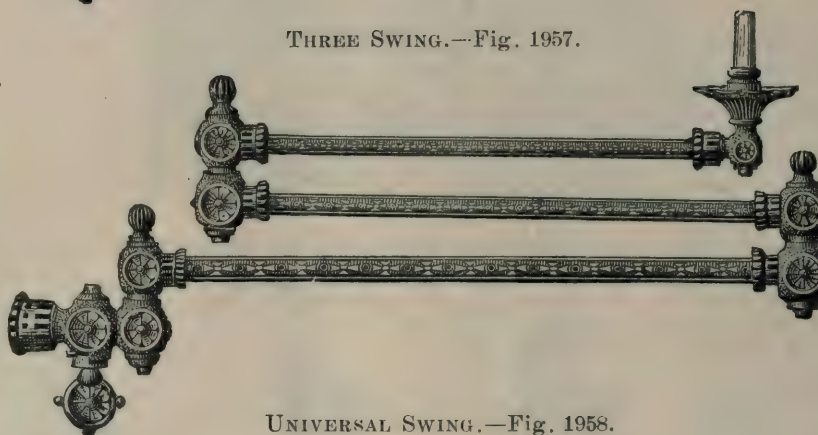
SINGLE SWING.—Fig. 1955.



DOUBLE SWING.—Fig. 1956.



THREE SWING.—Fig. 1957.



UNIVERSAL SWING.—Fig. 1958.

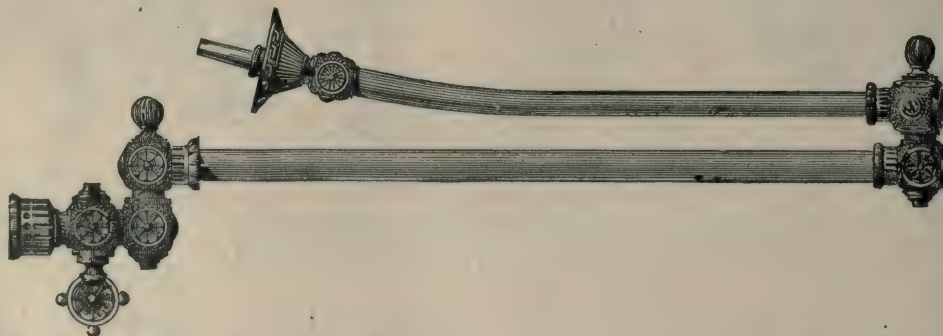
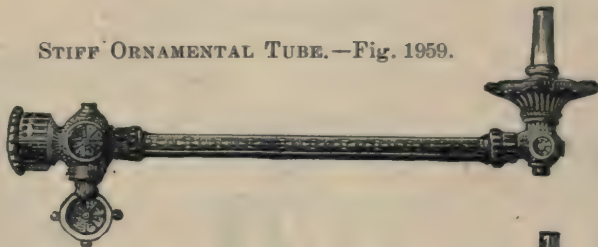


	Fig. 1955. Single Swing.	Fig. 1956. Double Swing.	Fig. 1957. Three Swing.	Fig. 1958. Univ'l Swing.
Price each.....	90	1.20	1.60	1.60

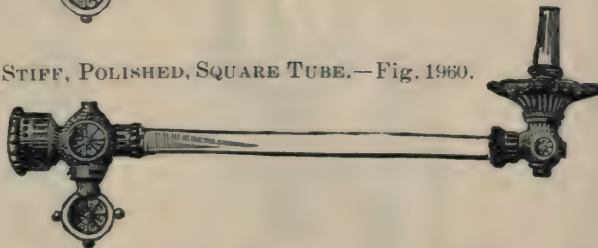
Gas Fitters' Goods.

Gas Brackets.

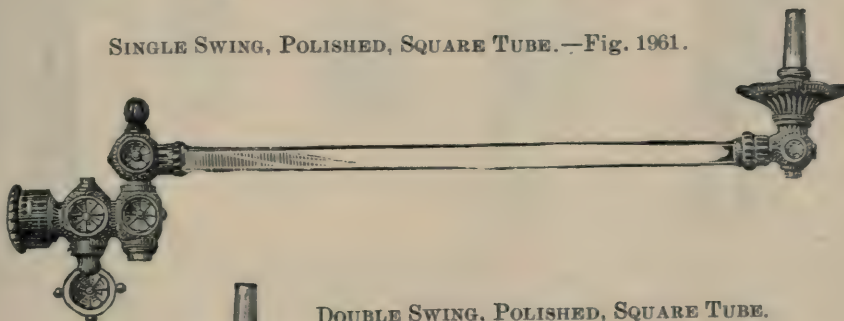
STIFF ORNAMENTAL TUBE.—Fig. 1959.



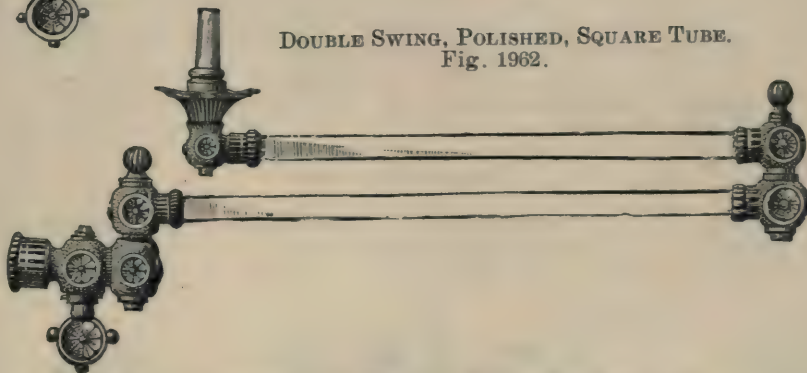
STIFF, POLISHED, SQUARE TUBE.—Fig. 1960.



SINGLE SWING, POLISHED, SQUARE TUBE.—Fig. 1961.



DOUBLE SWING, POLISHED, SQUARE TUBE.
Fig. 1962.



SINGLE SWING, POLISHED, ROUND TUBE.—Fig. 1963.

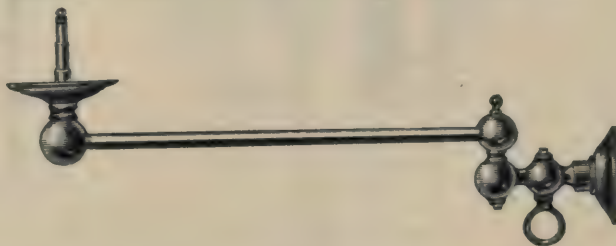


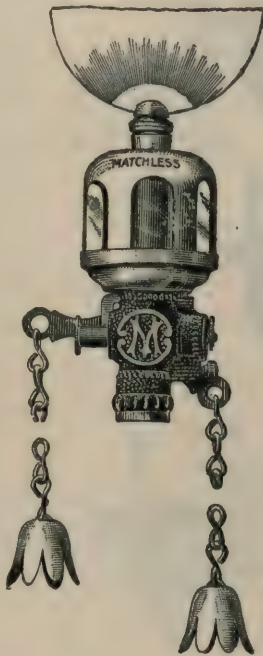
Fig.	Description	Price each	
1959.	Stiff, Ornamental Tube.....	70	
" 1960.	" Square, Polished Tube	95	
" 1961.	Single Swing, Square, Polished Tube	1.35	
" 1962.	Double " " "	1.80	
" 1963.	Single " Round " "	95	

Gas Fitters Goods.

Self Lighting Burners.

THE MATCHLESS.—No. 3.

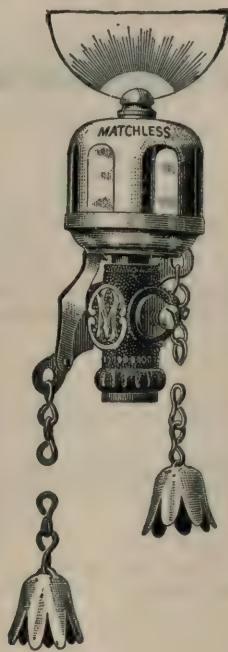
Fig. 1964.



No. 3.

THE MATCHLESS.—No. 5.

Fig. 1965.



No. 5.

THE "DUNCAN."
SELF REGULATING BURNER.

Fig. 1965½.



	Price each.	Per Doz.
Fig. 1964. The "Matchless" Self Lighting Burner, No. 3	70	7.20
" 1965. " " " No. 5	90	9.60
" 1965½. The "Duncan" Self Regulating "	30	3.45

Bray's Burners.

STANDARD SLIT UNION
30 to 40 CANDLE POWER.

Fig. 1966.

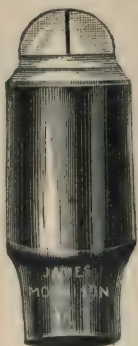
SPECIAL SLIT UNION
2 to 6 FEET PER HOUR.

Fig. 1967.

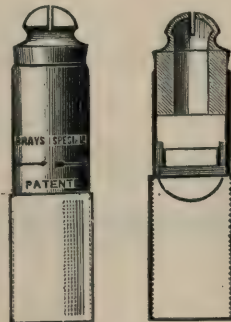
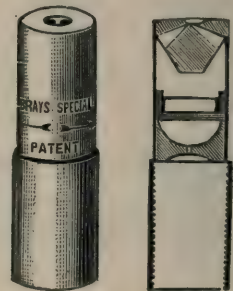
SPECIAL UNION JET
2 to 6 FEET PER HOUR.

Fig. 1968.

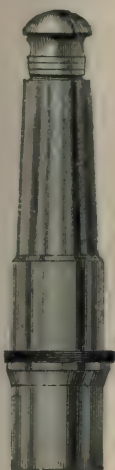


	Each	Per Dozen.	Per Gross.
Fig. 1966. Standard Slit Union.....Price	35	4.00	48.00
" 1967. Special Slit Union....."	..	40	4.80
" 1968. Special Union Jet....."	..	30	3.60

Gas Fitters' Goods.

Burners Etc.

DOUBLE CHECK BURNER. Fig. 1969.
CLOUGH'S PATENT GASOLINE BURNER. Fig. 1970.



BRASS PILLAR WITH LAVA TIPS. Fig. 1971.



COMMON BRASS BURNER, FISH TAIL. Fig. 1972.



TWIN BURNERS WITH LAVA TIPS. Fig. 1973.



BRASS PILLARS FOR LAVA TIPS. Fig. 1974.



		Price per Dozen.	Price per Gross.
Fig. 1969.	Double Check Burners with Lava Tips	96	10.75
" 1970.	Clough's Patent Gasoline Burners.....	5.50	60.00
" 1971.	Brass Pillars with Lava Tips	28	3.00
" 1972.	Common Brass Burners, Fish Tail	40	4.50
" 1973.	Twin Burners with Lava Tips.....	1.50	18.00
" 1974.	Brass Pillars for Lava Tips.....	15	1.75

DOUBLE CHECK BURNER BASE. Fig. 1975.
METAL TIPS, EXCAVATED HEAD. Fig. 1976.
LAVA TIPS EXCAVATED HEAD. Fig. 1977.
IRON TIPS, BATWING. Fig. 1978.
FISH TAIL. Fig. 1979.
STAR TIP. Fig. 1980.
SIGN TIP. Fig. 1981.



		Price per Dozen.	Price per Dozen.
Fig. 1975.	Double Check Burner Base.....	40	4.75
" 1976.	Nickel Plated Metal Tips.....	30	3.00
" 1977.	Lava Tips, $\frac{1}{2}$ to 10 feet per hour.....	12	1.25
" 1978.	Iron Tips, Batwing	25	2.50
" 1979.	" " Fish Tail	25	2.50
" 1980.	Star Tips, Brass.....	38	4.00
" 1981.	Sign Tips, Brass.....	30	3.00

Gas Fitters' Goods.

DROP LIGHT SOCKET

FIG. 1982.



GOOSE NECKS.

FOR PORTABLE STAND.

FIG. 1983.

FOR CIGAR
LIGHTER.
FIG. 1984.

STORK NECK.

FIG. 1985.

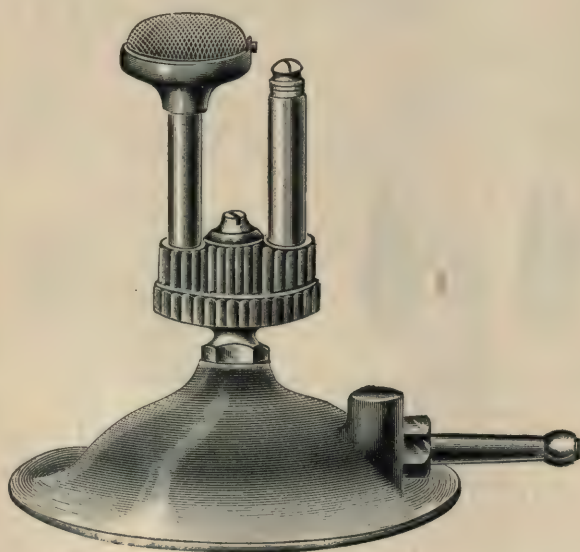


	Price each.	Price Per Dozen.
Fig. 1982. Drop Light Socket $\frac{5}{16}$ and $\frac{3}{8}$ Brass Tube Con.....	40	4.60
" 1983. Goose Necks for Portable Stands $\frac{5}{16}$ and $\frac{3}{8}$ Brass Tube..	28	3.25
" 1984. Goose Necks for Cigar Lighters, $\frac{5}{16}$ Brass Tube.....	24	2.75
" 1985. Stork Neck, $\frac{5}{16}$ in. Brass Tube	28	3.25

Jewelers Burners and Blow Pipes.

BURNER.

FIG. 1986.



BLOW PIPE.

FIG. 1987.



Fig. 1986. Jewelers Burners.....	Price each	2.00
" 1987. Blow Pipe, any size made to order.....	Prices on Application	....

Heaters, Etc.

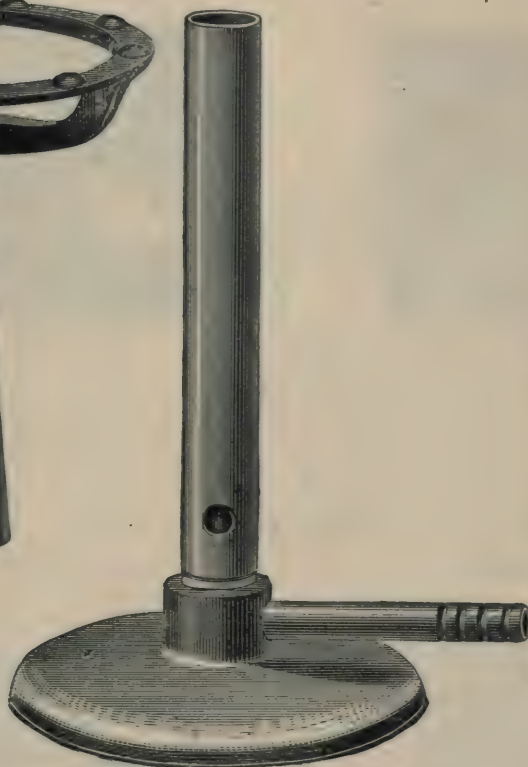
**Improved Dare Heater
and Holder.**

Fig. 1988.



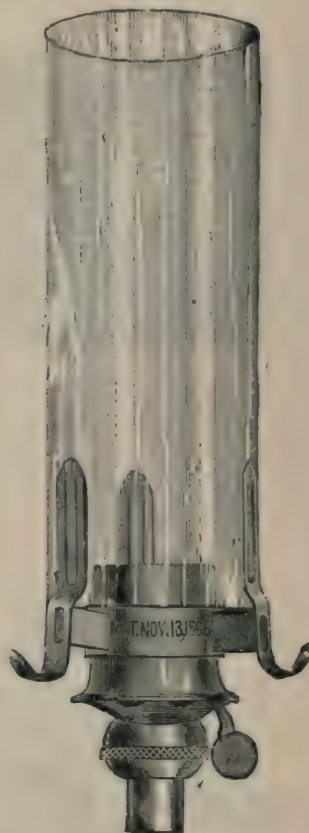
Bunsen Burner.

Fig. 1989.



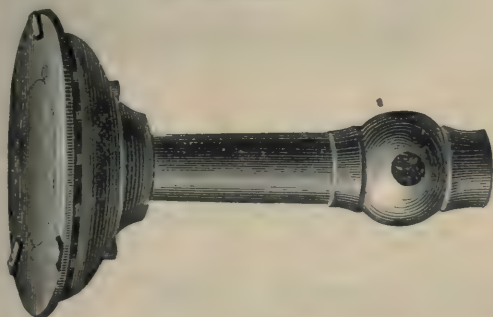
**Argand Burner and
Chimney.**

Fig. 1990.



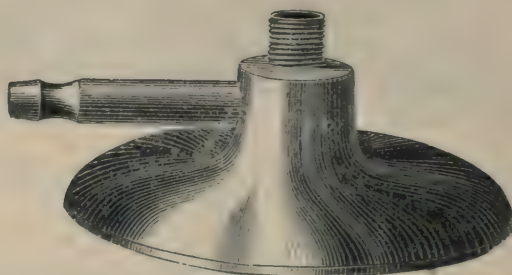
Monitor Heater Burner.

Fig. 1991.



Monitor Heater Stand.

Fig. 1992.

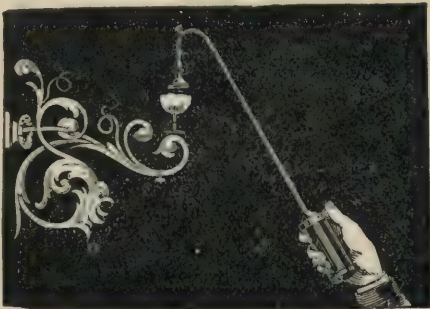


	Price Each.	Price per Doz.
Fig. 1988. Improved Dare Heater, without Attachment	25	2.50
" " " " " with "	45	5.00
" 1989. Bunsen Burner.....	75	9.00
" 1990. Argand Burners only, for Coal Gas	44	5.25
" " " " " for Gasoline Gas.....	44	5.25
" " " " Chimneys only .....	.....	.60
" 1991. Monitor Heater Burner, No. 1.....	40	4.50
" " " " " No. 2.....	80	9.00
" 1992. " " " Stand	36	4.00

Gas Fitters' Goods.

Patent Portable Dynamo-Electric Gas Lighter.

STYLE A.
Fig. 1993.



STYLE B.
Fig. 1994.



		24 Inch.	36 Inch.
Fig. 1993. Style A.....	Price each	12.50	15.00
" 1994. Style B.....	"	12.50	15.00

Gas Logs

Fig. 1965.

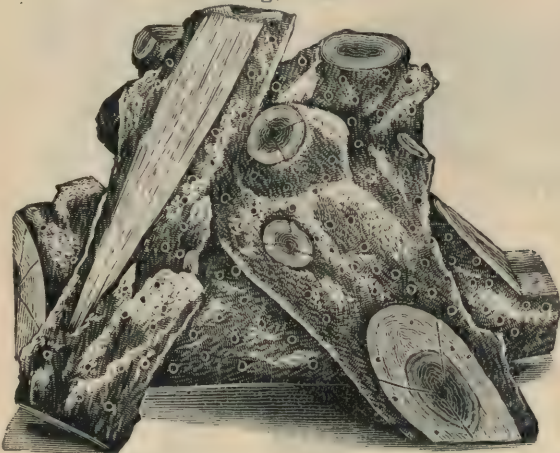
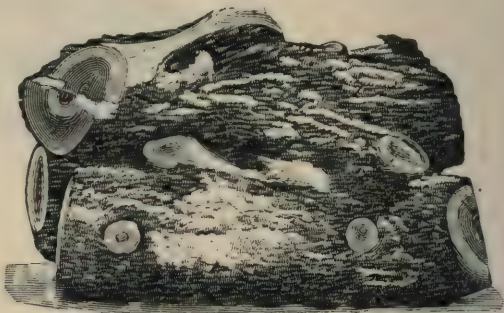


Fig. 1996.



Gas Pressure Gauge.

Fig. 1997.

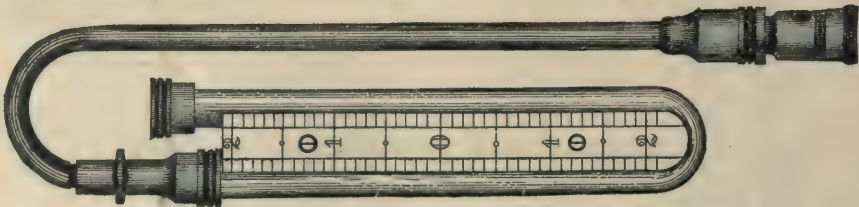


Fig. 1995. Gas Log.....	Price Per Inch	2.00
" 1996. Gas Log.....	"	2.00
" 1997. Gas Pressure Gauge 6 Inch.....	Price each	6.00
" " " " " 8 ".....	"	8.00

Gas Fitters' Goods.

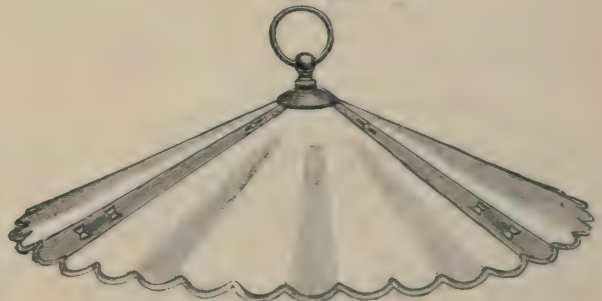
MICA CANOPIES FOR COM. BURNERS.
Fig. 1998.



MICA CANOPIES WITH LEGS.
Fig. 1999.



MICA SMOKE SHADES.
Fig. 2000.



OPAL SMOKE BELLS.
Fig. 2002.



OPAL SMOKE SHADES.
Fig. 2001.



Fig. 1998.	Mica Canopies for Com. Burners	Price per dozen	5.00
" 1999.	" " with Legs, 6½ inch	" "	4.50
" "	" " " 8 inch	" "	9.00
" 2000.	" Smoke Shades.....	" "	4.50

Smoke Bells and Shades.

Size, Inches.....	5	6	7	8	9
Fig. 2001. Opal Smoke Shades.....	2.50	3.00	3.50	4.50	5.50
" 2002. " " Bells.....	2.50	3.00	3.50	4.50	5.50

Gas Fitters' Goods.

BRACKET BACKS.
Fig. 2008.

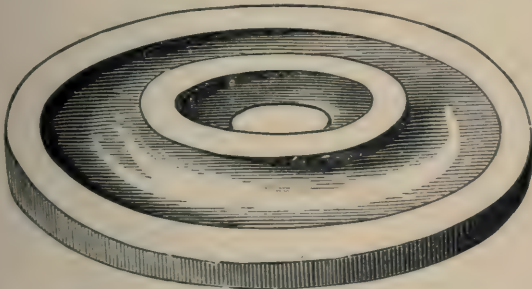


BURNER CUPS.
Fig. 2009.

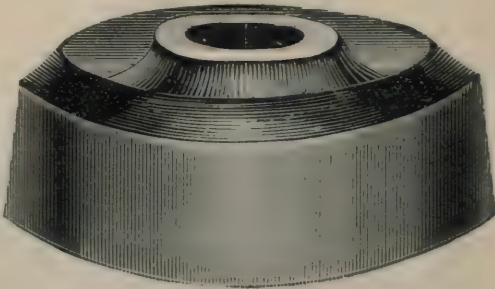


	2½ Bracket Backs	3" Bracket Backs.	Burner Cups.
Price Per Dozen Stamped Brass	30	35	20
" Gross " "	3.00	4.00	2.00

SPUN CEILING PLATES.
Fig. 2010,

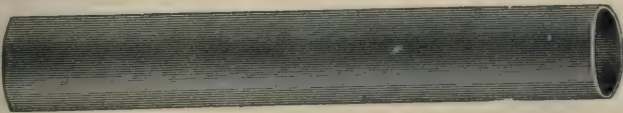


BOX PLATE.
Fig. 2011.

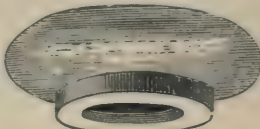


Diameter of Plate, Inches	3 Inch	4 Inch.
Fig. 2010. Spun Polished Brass	1.00	1.25
" " " " Bronze	1.00	1.25
" 2011. " Box Plates, Polished Brass	2.00	....
" " " " " " " " Bronze	2.00	....

COVERING TUBE.
Fig. 2012.



SPUN CHECKS
OR SEATING RINGS.
Fig. 2013.

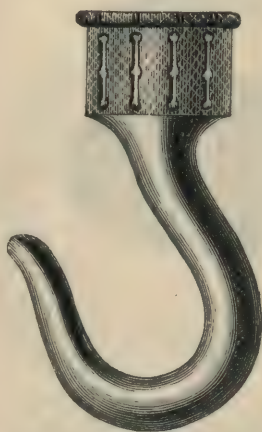


Size, Inches	¾	1	1½	2	2½
Fig. 2012. Polished Brass	18	24	25	28	36
" " " " Bronze	18	24	25	28	36
" 2013. " Brass	30	30	35	35	40
" " " " " " " " Bronze	30	30	35	35	40

Gas Fitters' Goods.

Brass Chandelier Hooks.

FEMALE.
Fig. 2014.



MALE.
Fig. 2011.



Ceiling Hooks.

FOR SMOKE BELLS.
Fig. 2016.

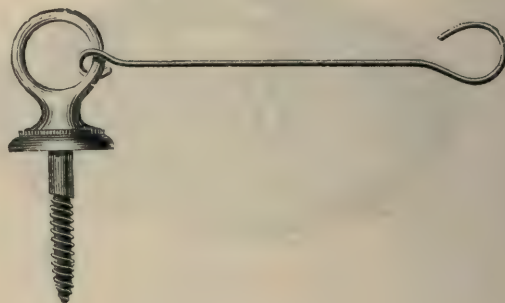
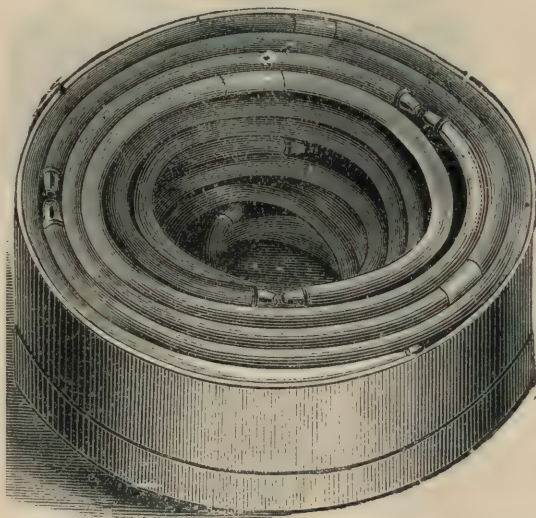


Fig. 2014.	Brass Chandelier Hooks, Female	Price per dozen	2.15
" 2015.	" " " Male.....	" "	2.15
" 2016.	Ceiling Hooks, for Smoke Bells.....	" "	1.25

Covered Tubing.

Fig. 2017.



Wax Tapers.

Fig. 2018.

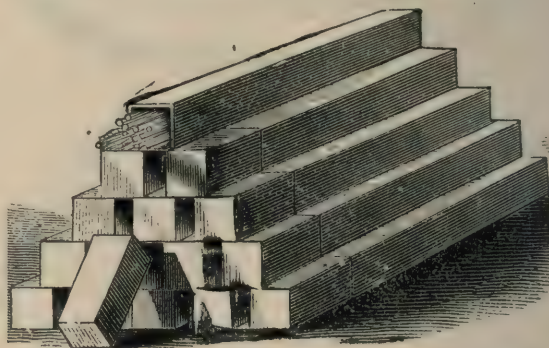


Fig. 2017.	Mohair Tubing in 6 feet Lengths	Price per length	1.00
" 2018.	Wax Tapers in $\frac{1}{4}$ lb. boxes.....	" " box	.16

Gas Couplings.

Fig. 2019.



Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price each	09	11	16	22	30	55	72	90	2.22

Gas Fitters' Goods.

Cigar Lighter.

Fig. 2020.



Gas Key.

Fig. 2021.



Taper Slide and Key.

Fig. 2022.



Nickel Plated Gas Burner Cleaner.

Fig. 2023.



Gas Fitters' Cement.

Fig. 2024.

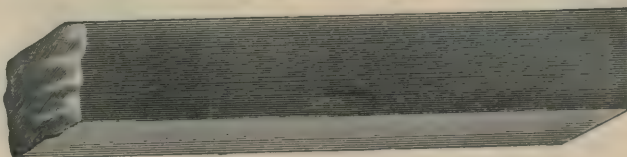
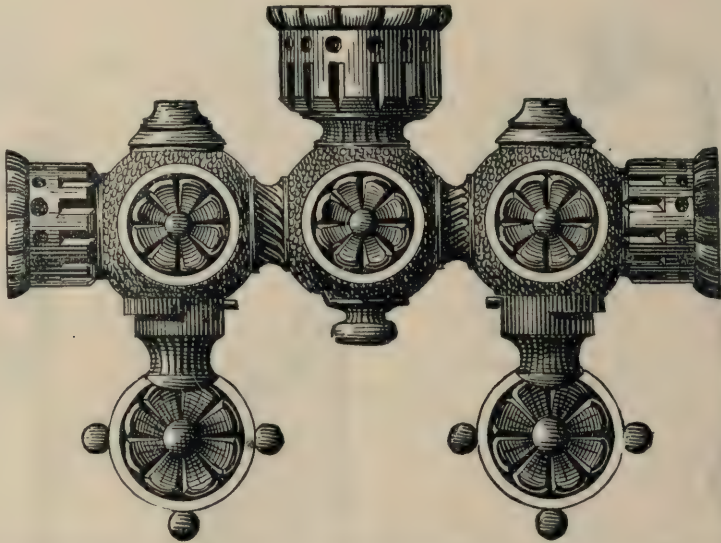


Fig. 2020.	Cigar Lighter	Price each	2.00
" 2021.	Gas Key	"	.60
" 2022.	Gas Key and Taper Slide	"	1.00
" 2023.	Gas Burner Cleaners	Price per doz.	1.00
" 2024.	Gas Fitters' Cement	" lb.	.18

Gas Fitters' Goods.

Two Light Pendant Cocks.

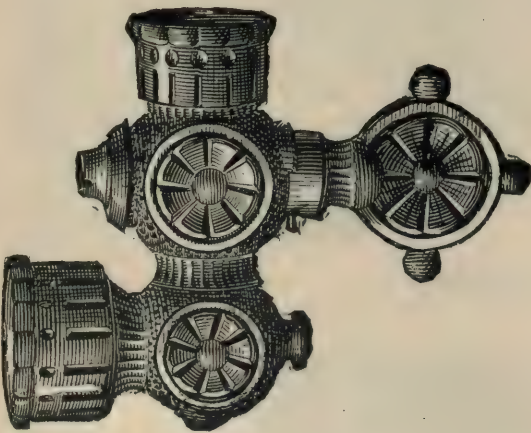
Fig. 2025.



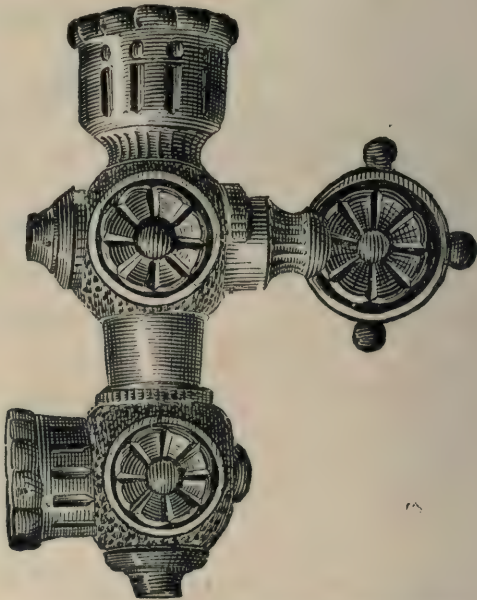
Size, Iron Pipe Thread.....	$\frac{1}{4} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$
Price Each.....	67	81	81

Pendant Cocks.

L. STIFF.
Fig. 2026.



REVOLVING.
Fig. 2027.

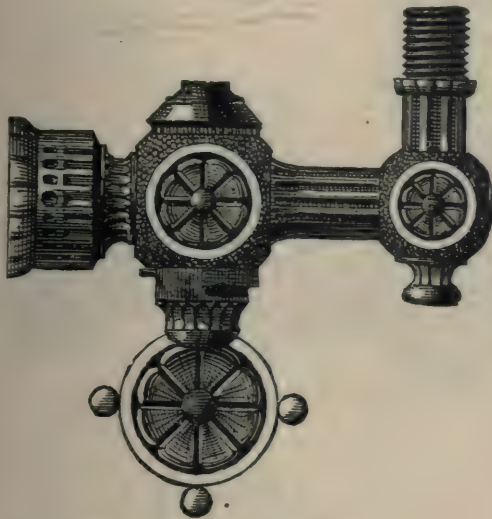


Size, Iron Pipe.....	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$
Fig. 2026. L Stiff Pendant Cock..... Each	37	37	44	45	45
" 2027. L Revolving "..... "	....	58	58	67	67

Gas Fitters' Goods.

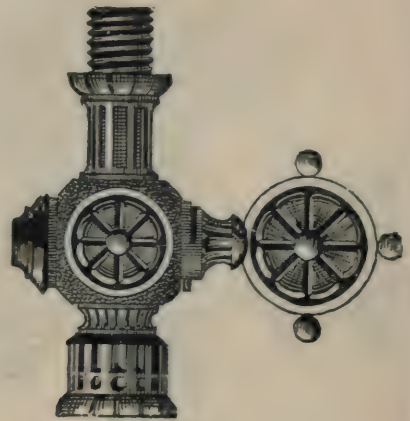
L Burner Cocks.

Fig. 2028.



Pillar Cocks.

Fig. 2029.

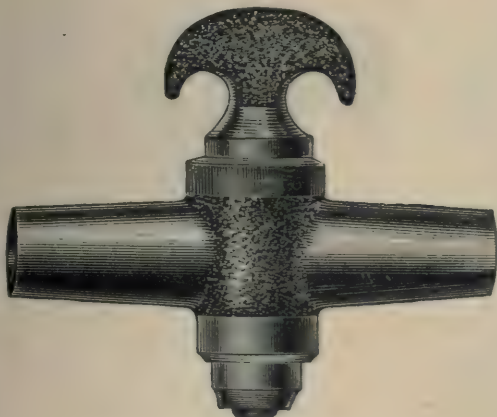


Size, Iron Pipe Thread	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 2028. L Burner Cock.....Price each	38	44	50	60
" " " 4 in. Long "	..	67	67	..
" 2029. Pillar Cock	27	34	44	54

Service Cocks.

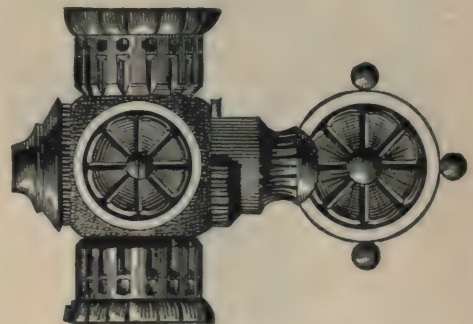
FOR LEAD PIPE.

Fig. 2030.



FOR IRON PIPE.

Fig. 2031.

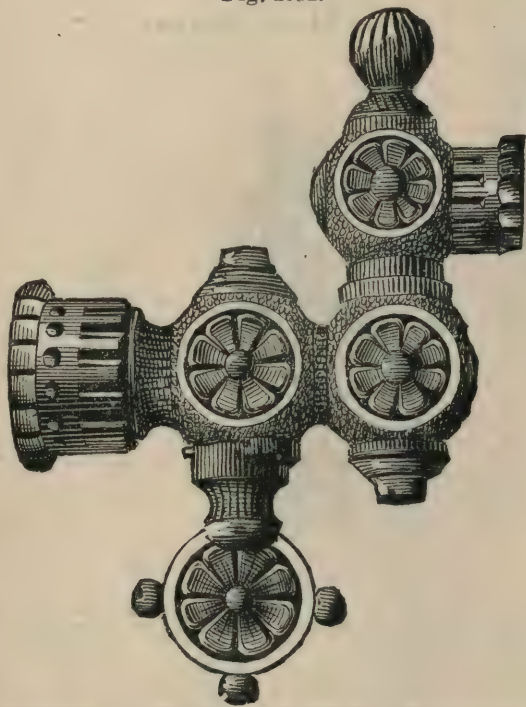


Size, Lead and Iron Pipe	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 2030. For Lead Pipe	40	55	70
" 2031. For Iron Pipe.....	40	55	70

Gas Fitters' Goods.

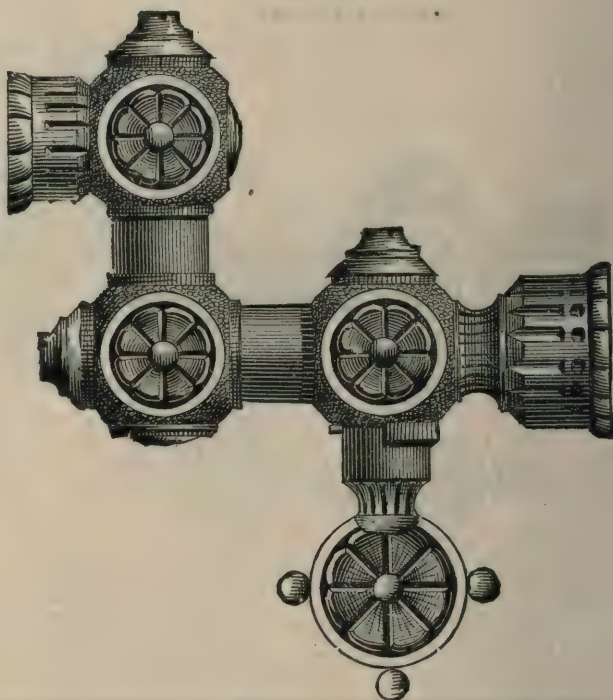
BRACKET COCKS.

Fig. 2032.



UNIVERSAL BRACKET COCKS.

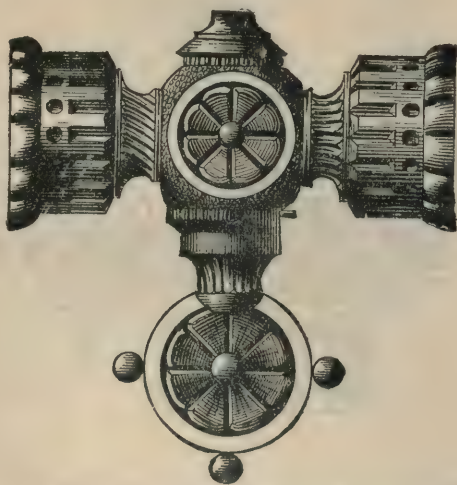
Fig. 2033.



Size, Iron Pipe Thread.....	$\frac{3}{8} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$
Fig. 2032. Bracket Cock.....Price each	.63	.67	.80
" 2033. Universal Bracket Cocks....."	1.00	1.00	1.13

Straight Cock.

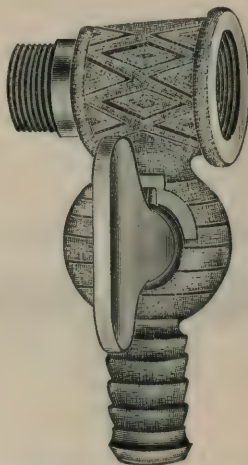
Fig. 2034.



Independent Cock.

FOR RUBBER TUBE OR BURNER.

Fig. 2035.

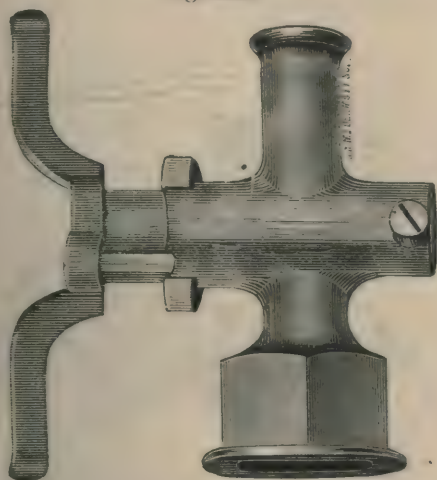


Size, Iron Pipe.....	BRASS. $\frac{5}{16} \times \frac{5}{16}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$
Fig. 2034. Straight Cocks.....Price each	30	30	37	38	42	42	45
" 2035. Independent Cocks. "	..	..	..	..	..	..	60

Gas Fitters' Goods.

Street Lamp Cock.

Fig. 2036.



Union Meter Cock.

Fig. 2037.

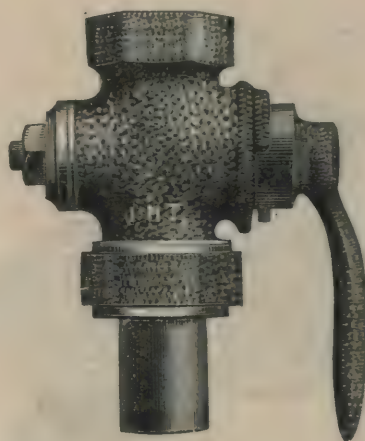


Fig. 2036.—Street Lamp Cock.

Size, Iron Pipe Thread.....	$\frac{3}{8} \times \frac{1}{2}$	$\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{4} \times \frac{1}{2}$	$1 \times \frac{1}{2}$
Price, per dozen.....	11.00	12.00	13.00	15.00

Fig. 2037.—Union Meter Cocks, L Handle or Square Head.

Size, Iron Pipe.....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price, per dozen.....	12.75	18.00	23.25	36.00	54.00	78.00

Chandelier Cocks.

No. 1.—Fig. 2038.



No. 2.—Fig. 2039.



Hall Light.

Fig. 2040.



	No. 1	No. 2	Hall Light
Price, per dozen for $\frac{3}{8}$ Brass.....	7.50	7.50	9.00

Gas Fitters' Goods.

Top Swings.

Fig. 2041.—FEMALE.

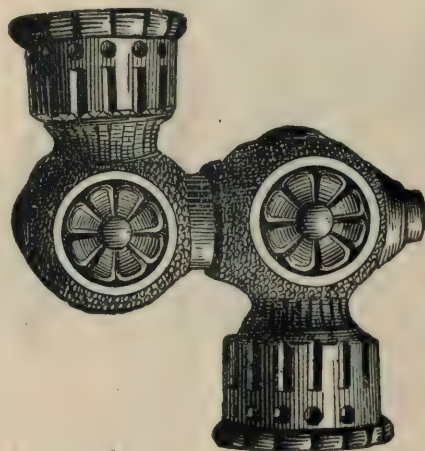
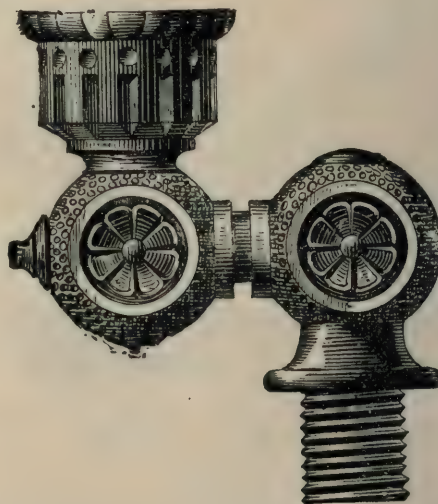


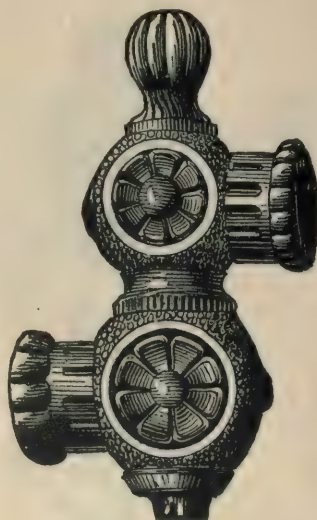
Fig. 2042.—MALE AND FEMALE.



Size, Iron Pipe Thread.....	$\frac{3}{8} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$
Fig. 2041. Female Both Ends.....Price each	42	42	50
" 2042. Male and Female....."	....	....	50

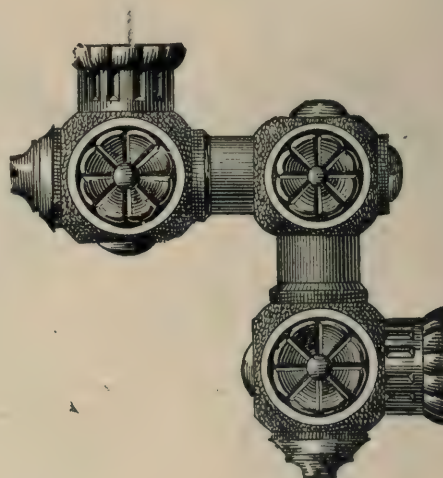
Middle Swings.

Fig. 2043.



Universal Swing Joints.

Fig. 2044.



Size, Iron Pipe.....	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$
Fig. 2043. Middle Swing.....Price each	31	36	36	....	....
" 2044. Universal Swing....."	62	62	66	66	72

Gas Fitters' Goods.

Straight, or End Nozzles.

Fig. 2045.

**Side, or Elbow Nozzles.**

Fig. 2046.

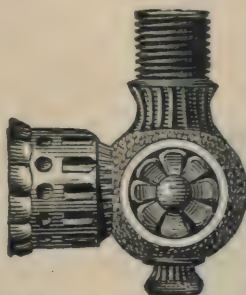
**Stiff Joints.**

Fig. 2047.



Size, Iron Pipe	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$	$\frac{1}{2} \times \frac{1}{4}$	$\frac{1}{2} \times \frac{3}{8}$	$\frac{1}{2} \times \frac{1}{2}$
Fig. 2045. End Nozzles.. Price each	10	14	14	....	....	....	....	....
" 2046. Side " " "	10	14	14	....	....	....	....	....
" 2047. Stiff Joints... "	....	....	12	13	14	17	17	24

Two Light Bracket Body.

Fig. 2048.

**Pendant Body.**BRASS.
Fig. 2049.**Pendant Body.**BRASS OR IRON.
Fig. 2050.

Number of Lights	Two Lights.			Four Lights.	
	$\frac{3}{8} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$	$\frac{1}{2} \times \frac{1}{4}$	$\frac{1}{2} \times \frac{3}{8}$
Fig. 2048. Bracket Body, Rough Per doz.	....	....	5.00	....	....
" 2049 { Pendant Body, Finished .. "	9.50	9.50	10.80	12.00	13.00
" " " Pol. & Lacq. " "	12.00	12.00	13.75	15.00	15.50

Fig. 2050.—Pendant Bodies, Brass or Iron.

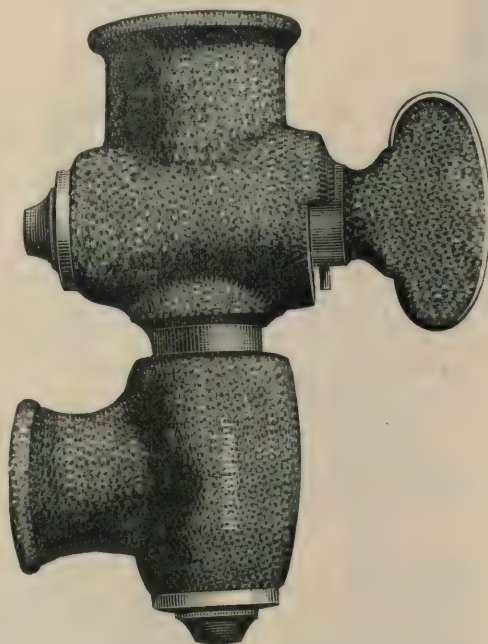
Number of Lights	4	5	6	8
Size of Inlet or Supply, Iron Pipe, Inches.....	$\frac{1}{2}$	$\frac{1}{2}$ or $\frac{3}{4}$	$\frac{3}{4}$ or 1	$\frac{3}{4}$ or 1
Size of Outlet or Branches, Iron Pipe Thread	$\frac{1}{4}$ or $\frac{3}{8}$	$\frac{1}{4}$ or $\frac{3}{8}$	$\frac{1}{4}$ or $\frac{3}{8}$	$\frac{1}{4}$ or $\frac{3}{8}$
Cast Iron, Rough..... Price each	1.00	1.10	1.25	2.00
Brass " " " " " "	1.50	1.65	1.80	3.00
" " " " " " " " " " " "	1.90	2.05	2.20	3.50

Gas Fitters' Goods.

Extra Heavy Gas Cocks and Joints For Factory Use.

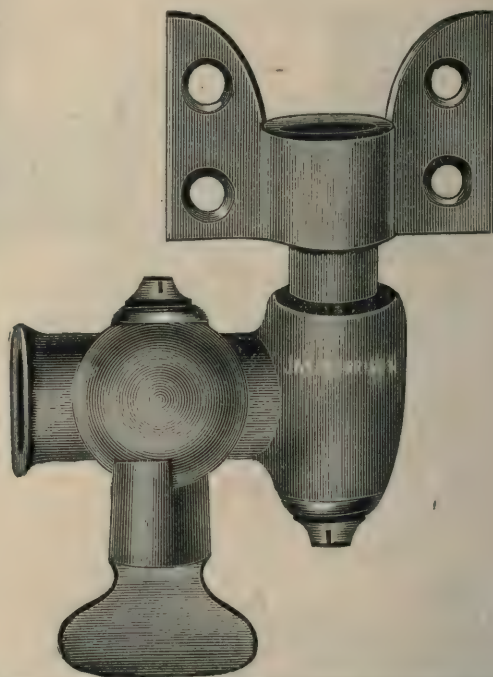
REVOLVING PENDANT COCK.

Fig. 2051.



WING BACK BRACKET COCK.

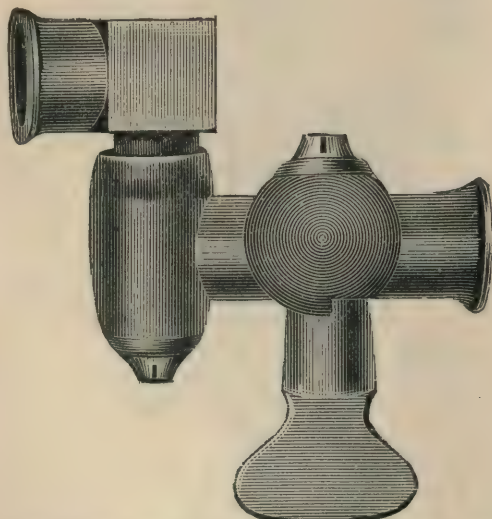
Fig. 2052.



Size, Iron Pipe Thread.....	$\frac{1}{4} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{4}$
Fig. 2051. Revolving Pendant Cock.....Price each	9.50	10.80
" 2052. Wing Back Bracket Cock....."	10.25	11.40

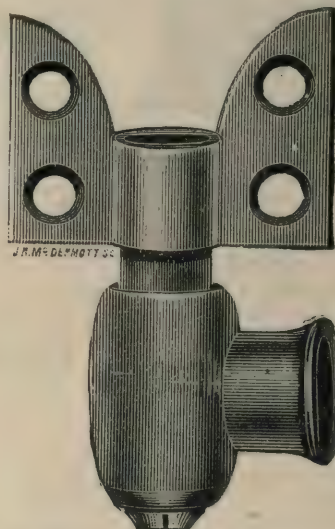
Plain Bracket Cocks.

Fig. 2053.



Wing Back Middle Swings.

Fig. 2054.



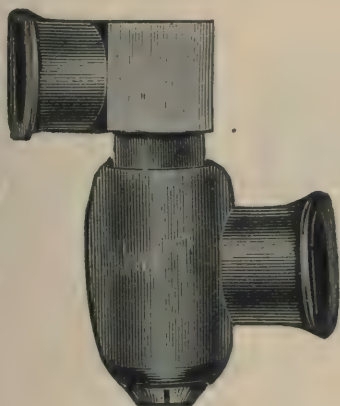
Size, Iron Pipe Thread.....	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$
Fig. 2053. Bracket Cock.....Price per dozen	....	9.60	10.80	10.80
" 2054. Wing Back Middle Swing	6.00	6.50	....	....

Gas Fitters' Goods.

Extra Heavy Joints For Factory Use.

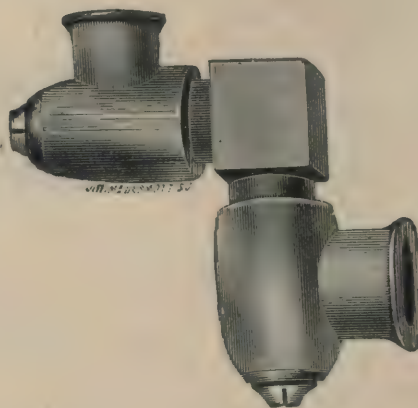
PLAIN MIDDLE SWING.

Fig. 2055.



UNIVERSAL SWING.

Fig. 2056.

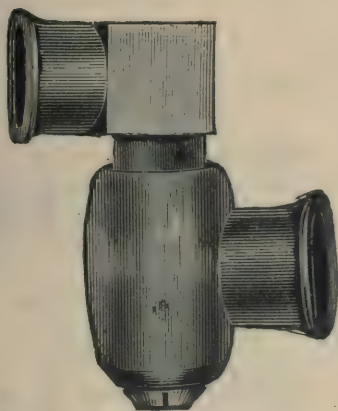


Size, Iron Pipe Thread	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$
Fig. 2055. Middle Swing .....	....	6.00	6.00	....	....	....
" 2056. Universal Swing	8.00	8.00	8.50	9.00	9.50	10.00

Top Swings.

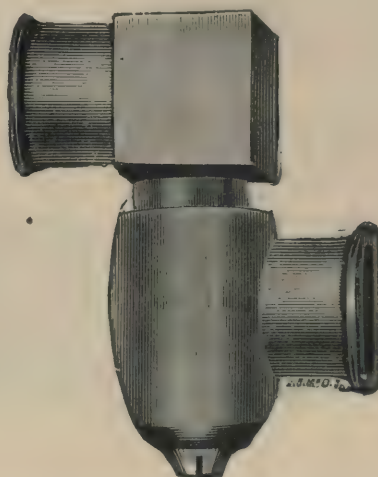
PLAIN TOP SWING.

Fig. 2057.



XX HEAVY TOP SWING.

Fig. 2058.



Size, Iron Pipe Thread	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$
Fig. 2057. Plain Top Swings	7.20	8.00
" 2058. X X Heavy "	9.00	9.60

Gas Fitters' Goods.

Gas Cock.

WITH LEVER FOR CHAIN.

Fig. 2059.

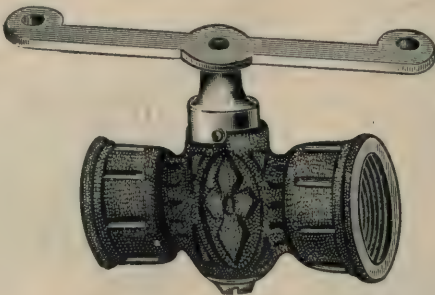
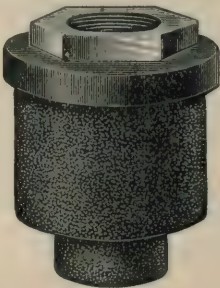


Fig. 2059. 1/4 x 3/8 in., Rough Price each 75c.

Insulation Joints.

BRASS.
Fig. 2060.



MALLEABLE IRON, GALVANIZED.
Fig. 2061.

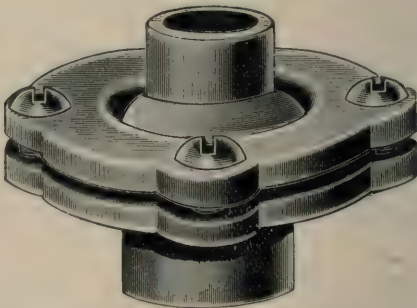


Fig. 2060. Brass, Rough..... Price each 40c.
" 2061. Malleable Iron, Galvanized..... " 35c.

Couplings.

Fig. 2062.

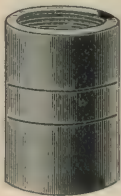
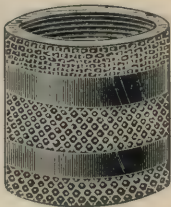
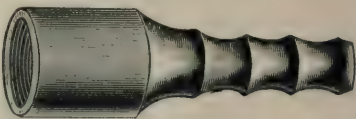


Fig. 2063.



Hose Tips, Female.

Fig. 2064.



Hose Tip, Male.

Fig. 2065.



Size, Iron Pipe.....		1/8	1/4	3/8	1/2
Fig. 2062.	Plain	08	10	12	18
" 2063.	Milled.....	10	12	15	20
" 2064.	Cast Brass, M. or F.....	....	....	15	20
" 2065.	Rod Brass, M. or F.....	....	....	15	20

Gas Stove Fittings.

Angle Valve.

Fig. 2066.



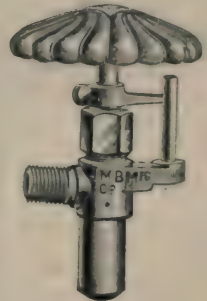
Globe Valve.

Fig. 2067.



Stop Valve.

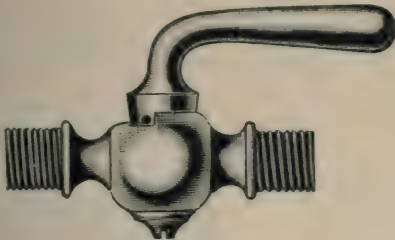
Fig. 2068.



Size, Iron Pipe.....	$\frac{3}{8}$	$\frac{1}{2}$
Fig. 2066. Angle Valve, Nickel Plated.....Price each	40	45
" 2067. Globe " " "	45	50
" 2068. Stop " " "	50	....

Straight Gas Cock.

Fig. 2069.



Straight Gas Cock.

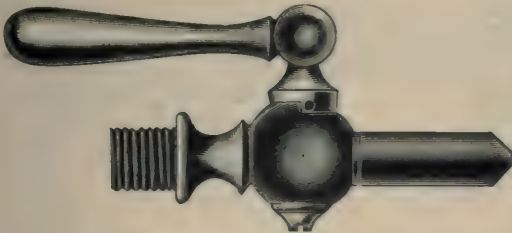
MADE FROM ROD BRASS.

Fig. 2070.



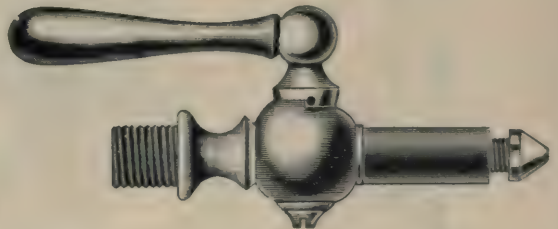
Straight Cock, Long Nose.

Fig. 2071.



Straight Cock, Long Nose with Tit.

Fig. 2072.

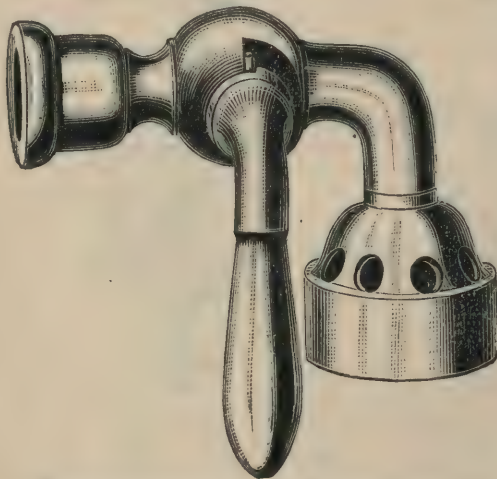


		Polished.	N. Plated.
Fig. 2069.	Straight Cock, Cast Brass, $\frac{1}{8}$ I. P.....Price each	30	35
" 2070.	" " Rod Brass....."	30	35
" 2071.	" " Long Nose, Rod Brass....."	50	60
" 2072.	" " " " with Tit, Rod Brass.."	55	65

Gas Stove Fittings.

Elbow Cock and Air Chamber.

Fig. 2073.



Air Chamber.

Fig. 2074.



Air Chamber.

Fig. 2075.



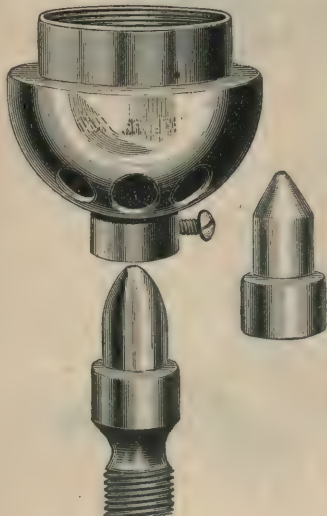
Description	Finished.		Nickel Plated.	
	$\frac{1}{8} \times \frac{1}{2}$	$\frac{1}{8} \times \frac{3}{4}$	$\frac{1}{8} \times \frac{1}{2}$	$\frac{1}{8} \times \frac{3}{4}$
Size, Iron Pipe.....				
Fig. 2073. Elbow Cock with Air Chamber..	1.00	....	1.20
" 2074. Air Chamber.....	15	....	20
" 2075. " "	20	....	25

Natural Gas Burners.

Air Chamber.

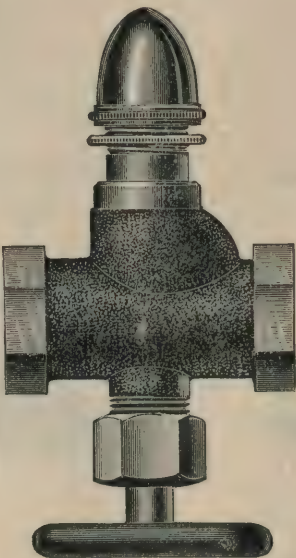
WITH JETS.

Fig. 2076.



Oil Burner or Atomizer.

Fig. 2077.



Oil Burner or Atomizer.

Fig. 2078.

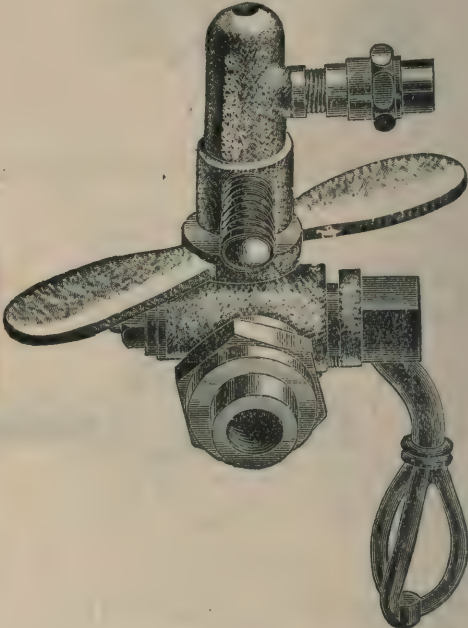


Fig. 2076. Air Chamber with Jets	Price each	1.25
" 2077. Oil Burner or Atomizer.....	"	2.50
" 2078. " "	"	3.50

Instantaneous Water Heater.

For Use with Coal Gas, or Natural Gas.

Fig. 2079.



Arranged with Duplex Valves and Union Connections.

Perfectly Safe, Bursting or Explosions Impossible.

Gas Supply.

$\frac{1}{2}$ inch Pipe should be used to obtain the best results.

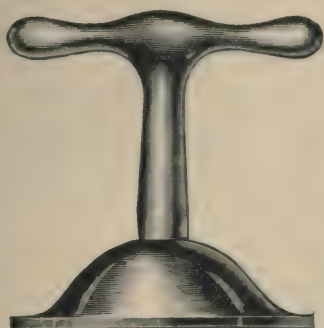
Gas Consumption—One Half Foot to One Foot per minute according to Size.

It is absolutely necessary that each Heater should be connected with Vent Pipe terminating outside of the Bath Room in which the Heater is connected.

No.	Description.	Dimensions.	PRICE.	
			Copper. Pol.	N. Plated.
1	Small, for Foot Baths or Lavatories.....	Dia. 9" Height 28"	20.00	23.00
2	Large, for Baths and Domestic Purposes..	" 15" " 42"	35.00	40.00
4	Medium, " " " ..	" 12" " 38"	30.00	35.00
5	Gasoline only " " " ..	" 12" " 40"	38.00	44.00
6	Small for Doctors, Dentists, Barbers, Etc.	" 6" " 18"	.....	14.00

Gas Plate and Key.

Fig. 2080.



Gas Plate.

Fig. 2081.



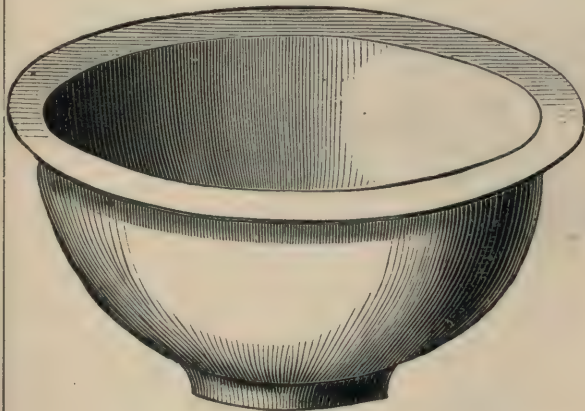
Fig. 2080.	Gas Plate and Key, Polished Brass	Price each	1.00
" 2081.	Gas Plate, Dipped and Lacquered.....	"	.50

Plumbers' Earthenware.

Plug Wash Basins.

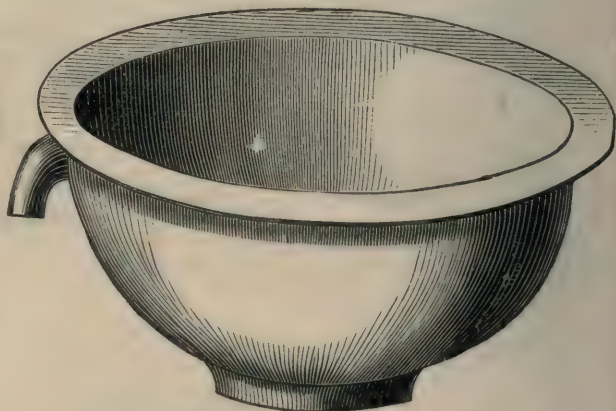
WITHOUT OVERFLOW.

Fig. 2082.



WITH COMMON OVERFLOW.

Fig. 2083.



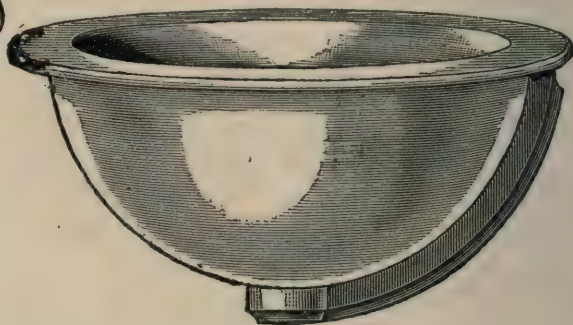
PATENT OVERFLOW FOR RUBBER PLUG.

Fig. 2084.



PATENT OVERFLOW FOR BRASS PLUG.

Fig. 2085.

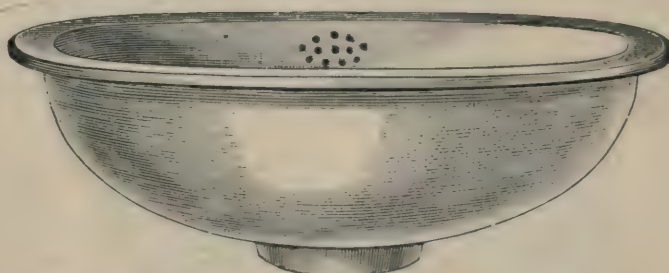


Diameter, Inches, outside measure		12	13	14	15	16
Fig. 2082.	{ White.....Price each	55	70	75	1.20	1.55
	{ Marbled “	65	80	85	1.30	1.65
“ 2083.	{ White..... “	70	83	90	1.35	1.85
	{ Marbled “	80	93	1.00	1.45	1.95
“ 2084.	{ White..... “	95	1.05	1.15	1.70	2.20
	{ Marbled “	1.05	1.15	1.25	1.80	2.30
“ 2085.	{ White..... “	77	90	1.00	1.50	2.00
	{ Marbled “	87	1.00	1.10	1.60	2.10

Plug Wash Basins.

Oval Wash Basin.

Fig. 2086.

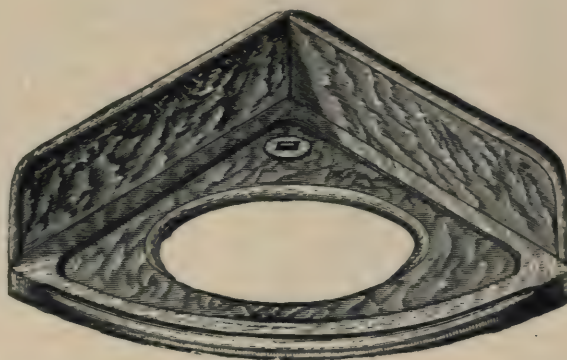


Size, Inches, Outside Measure		17 x 14	19 x 15	20 x 16
No Overflow	White	2.10	3.35	4.10
	Marbled	2.25	3.50	4.25
With Common Overflow	White	2.10	3.35	4.10
	Marbled	2.25	3.50	4.25
With Patent Overflow	White	2.50	3.50	4.25
	Marbled	2.65	3.65	4.40

Italian Marble Slabs.

CORNER.

Fig. 2087.

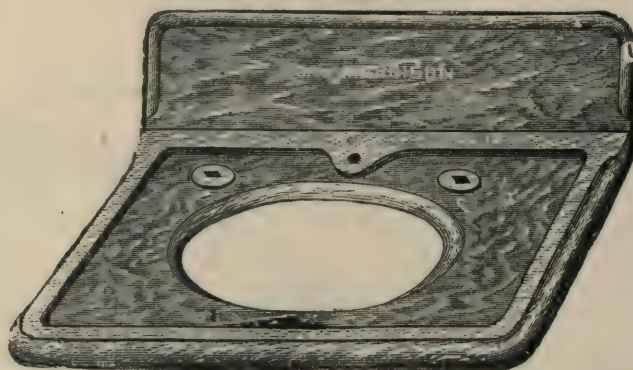


Description.	No.	Dimensions of Slabs, Inches.	Height of Back or Sides.	Size of Basin.	Price each.
Corner with Sides	1	20 x 20 x 1	8 inch.	.....	9.75
" "	2	20 x 20 x 1	10 "	.....	10.75
" "	3	22 x 22 x 1	8 "	.....	11.25
" "	4	22 x 22 x 1	10 "	.....	12.25
" "	5	24 x 24 x 1	8 "	.....	12.75
" "	6	24 x 24 x 1	10 "	.....	14.00
" "	7	24 x 24 x 1	12 "	.....	15.25
" "	8	24 x 24 x 1 1/4	8 "	.....	14.00
" "	9	24 x 24 x 1 1/4	10 "	.....	15.50
" "	10	24 x 24 x 1 1/4	12 "	.....	17.00

Italian Marble Slabs.

Oblong.

Fig. 2088.



WITH BACK.				WITH BACK AND ONE END, RIGHT OR LEFT.			
No.	Dimensions of Slabs.	Height of Back.	Price each.	No.	Dimensions of Slabs.	Height of Back & End.	Price each.
11	20 x 24 x 1	8 in.	10.00	38	20 x 24 x 1	8 in.	11.75
12	20 x 24 x 1	10 "	10.50	39	20 x 24 x 1	10 "	12.75
13	20 x 24 x 1	12 "	11.00	40	20 x 24 x 1	12 "	14.00
14	20 x 26 x 1	8 "	10.75	41	20 x 26 x 1	8 "	12.50
15	20 x 26 x 1	10 "	11.25	42	20 x 26 x 1	10 "	13.50
16	20 x 26 x 1	12 "	11.75	43	20 x 26 x 1	12 "	14.50
17	20 x 26 x 1 1/4	8 "	12.00	44	20 x 26 x 1 1/4	8 "	14.00
18	20 x 26 x 1 1/4	10 "	12.50	45	20 x 26 x 1 1/4	10 "	15.00
19	20 x 26 x 1 1/4	12 "	13.00	46	20 x 26 x 1 1/4	12 "	16.50
20	22 x 26 x 1	8 "	11.75	47	22 x 26 x 1	8 "	13.50
21	22 x 26 x 1	10 "	12.50	48	22 x 26 x 1	10 "	14.50
22	22 x 26 x 1	12 "	13.25	49	22 x 26 x 1	12 "	15.75
23	22 x 26 x 1 1/4	8 "	13.00	50	22 x 26 x 1 1/4	8 "	15.00
24	22 x 26 x 1 1/4	10 "	14.00	51	22 x 26 x 1 1/4	10 "	16.00
25	22 x 26 x 1 1/4	12 "	15.00	52	22 x 26 x 1 1/4	12 "	17.50
26	22 x 28 x 1	8 "	12.25	53	22 x 28 x 1	8 "	14.50
27	22 x 28 x 1	10 "	12.75	54	22 x 28 x 1	10 "	15.40
28	22 x 28 x 1	12 "	13.50	55	22 x 28 x 1	12 "	16.75
29	22 x 28 x 1 1/4	8 "	13.50	56	22 x 28 x 1 1/4	8 "	15.50
30	22 x 28 x 1 1/4	10 "	14.50	57	22 x 28 x 1 1/4	10 "	17.00
31	22 x 28 x 1 1/4	12 "	15.50	58	22 x 28 x 1 1/4	12 "	18.50
32	22 x 30 x 1	8 "	12.75	59	22 x 30 x 1	8 "	15.00
33	22 x 30 x 1	10 "	13.50	60	22 x 30 x 1	10 "	16.25
34	22 x 30 x 1	12 "	14.50	61	22 x 30 x 1	12 "	17.50
35	22 x 30 x 1 1/4	8 "	14.25	62	22 x 30 x 1 1/4	8 "	16.50
36	22 x 30 x 1 1/4	10 "	15.00	63	22 x 30 x 1 1/4	10 "	18.00
37	22 x 30 x 1 1/4	12 "	16.00	64	22 x 30 x 1 1/4	12 "	19.50

Tennessee Marble Slabs.

WITH BACK.				WITH BACK AND ONE END, RIGHT OR LEFT.			
No.	Dimensions of Slabs.	Height of Back.	Price each.	No.	Dimensions of Slabs.	Height of Back & End.	Price each.
65	20 x 26 x 1 1/4	10 in.	16.50	73	20 x 26 x 1 1/4	10 in.	19.75
66	20 x 26 x 1 1/4	12 "	17.50	74	20 x 26 x 1 1/4	12 "	21.75
67	22 x 26 x 1 1/4	10 "	17.50	75	22 x 26 x 1 1/4	10 "	21.00
68	22 x 26 x 1 1/4	12 "	18.50	76	22 x 26 x 1 1/4	12 "	23.00
69	22 x 28 x 1 1/4	10 "	18.75	77	22 x 28 x 1 1/4	10 "	21.75
70	22 x 28 x 1 1/4	12 "	19.75	78	22 x 28 x 1 1/4	12 "	24.25
71	22 x 30 x 1 1/4	10 "	20.00	79	22 x 30 x 1 1/4	10 "	23.75
72	22 x 30 x 1 1/4	12 "	21.00	80	22 x 30 x 1 1/4	12 "	25.75

Urinals.

Flat Back, Earthenware.

WITHOUT OVERFLOW.
Fig. 2089.



WITH PATENT OVERFLOW.
Fig. 2090.



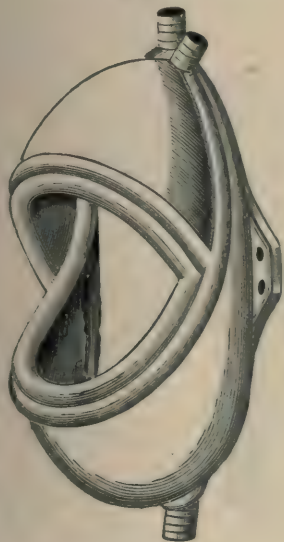
LIPPED.
Fig. 2091.



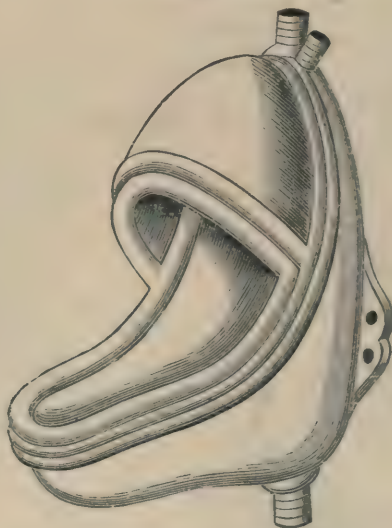
Hooded Urinals.

Flat Back.

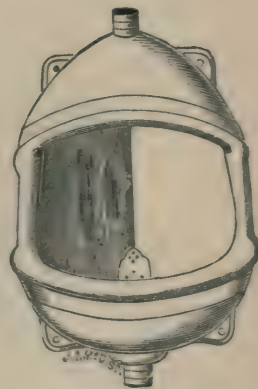
WITHOUT OVERFLOW.
Fig. 2092.



WITH PATENT OVERFLOW.
Fig. 2093.



Corner.
No OVERFLOW.
Fig. 2094.

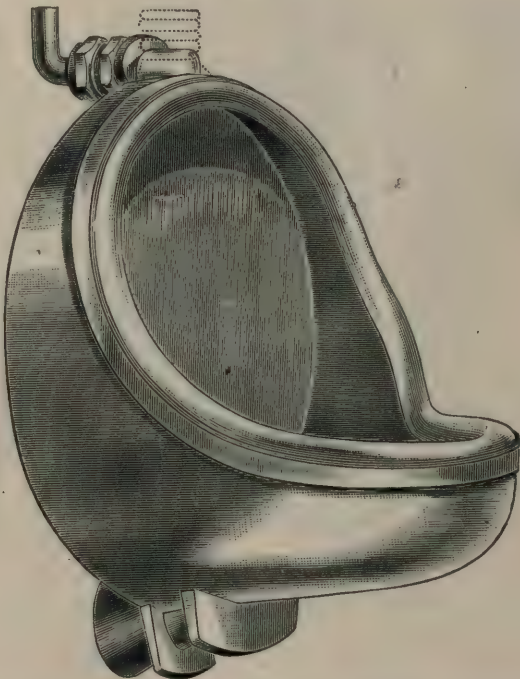


Number		1	2	3
Fig. 2089. Flat Back, no Overflow.....	Price each	4.10	4.80	....
" 2090. Flat Back with Patent Overflow.....	"	4.60	5.30	....
" 2091. Lipped, Flat Back, no Overflow	"	7.00	8.00	10.00
" " " " with Overflow	"	7.50	8.50	10.50
" 2092. Flat Back with Hood, no Overflow.....	"	5.10	5.80	....
" 2093. " " Patent Overflow....	"	5.60	6.30	....
" 2094. Lipped, Flat Back with Hood, no Overflow	"	8.10	9.10	11.10
" " " " Pat. " "	"	8.60	9.60	11.60

Urinals.

Stevens' Urinals.

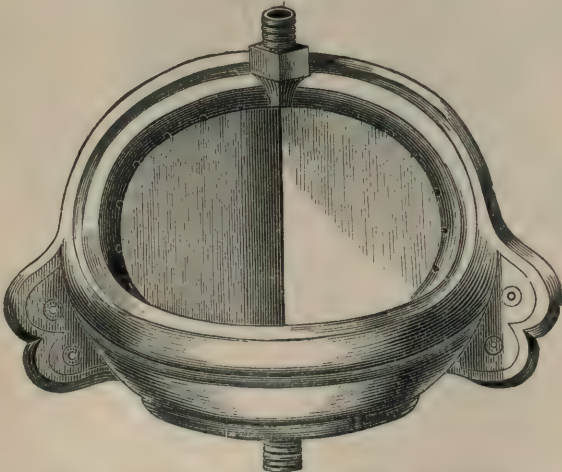
Fig. 2095.



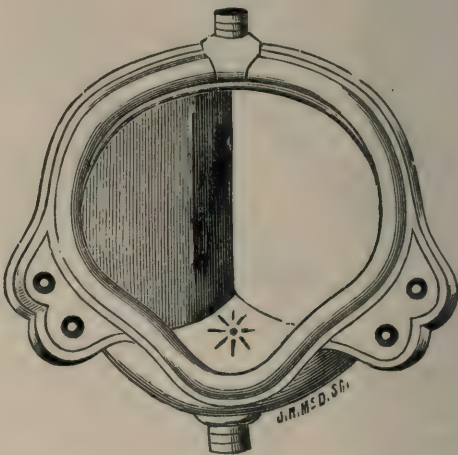
Stevens' Patent Back Outlet Urinals	Domestic.....	Price each	10.00
	Imported	"	16.00

Corner Urinals.

PLAIN.
Fig. 2096.



LIPPED.
Fig. 2097.



Number	1	2	3
Fig. 2096. Plain Corner, no Overflow	4.70	5.40	.....
" " " Pat. "	5.20	5.90	.....
" 2097. Lipped " no "	7.60	8.60	.....
" " " with "	8.10	8.10	.....

Plumbers' Earthenware.

Imported Closets.

The "Primo" Syphon Jet.

Fig. 2098.



The "Inodoro" Back Outlet.

Fig. 2099.



The "Titan" Washdown.

Fig. 2100.



The "Roman" Washdown.

Fig. 2101.



				WHITE.	
				Plain.	Embossed
Fig. 2098.	The "Primo" without Seat Extension.....	Price each		28.50	30.75
" "	" with "Perfecto" Seat Extension.....	"		30.00	32.75
" 2099.	The "Inodoro" without Seat Extension	"		16.50	18.00
" "	" with "Perfecto" Seat Extension	"		18.00	19.50
" 2100.	{ The "Titan" Washdown Closet } No. 1.....	"		18.00	19.50
" "		with "Perfecto" Seat Attachment. { " 2 }	"	17.25	18.75
" "		{ " 3 } .....	"	.....	16.50
" 2101.	The "Roman" without Seat Extension .....	"		.....	18.00
" "	" with " " " " .....	"		.....	18.00

Plumbers' Earthenware.

Domestic Closets.

The "Primo."

Fig. 2102.



The "Diamond."

Fig. 2103.



The "Clawfoot."

Fig. 2104.



The "Perfect."

Fig. 2105.



		WHITE OR IVORY.	
		Plain.	Embossed
Fig. 2102.	The "Primo" Syphon Jet.....	Price each	
" 2103.	The "Diamond"	"	
" 2104.	The "Clawfoot"	"	
" 2105.	The "Perfect"	"	
For Decorated Closets add to the prices of the above Closets the following :			
Embossed Closets.	{ Gold Traced only.....	each	6.50
	{ Shaded and Gold Traced	"	7.50
	{ Ground Colored and Gold Traced	"	8.50
Plain Closets.	{ Painted.....	"	7.00
	{ Painted and Ground Laid	"	8.00
Seat and Extra Vents on all Closets.....		Extra each	.30
Extension for Seat Attachments for all Closets.....		"	.90

Plumbers Earthenware Closets.

Fig. 2106.—The “Richelieu.”



Fig. 2107.—The “Stork.”



Fig. 2108.—The “Star.”

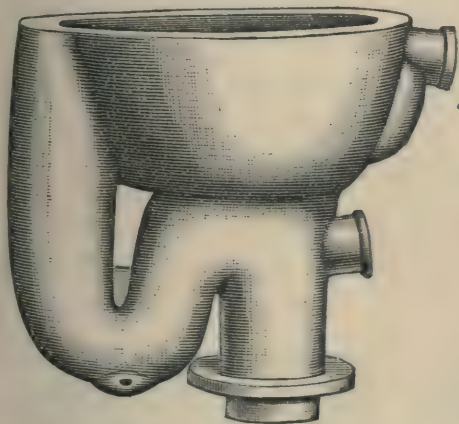


Fig. 2109.—“The Gem.”



		CANE AND WHITE	WHITE OR IVORY.		
		Plain.	Plain.	Embossed.	
Fig. 2106.	The "Richelieu" Front Outlet.....	Price each	6.00	6.75	7.20
" 2107.	The "Stork" "				

Plumbers' Earthenware.

Hoppers.

Morrison's Washout.

Fig. 2110.



Long Oval F. Rim.

Fig. 2111.



Cast Iron Enameled Hoppers.

Philadelphia.

Fig. 2112.



Oval F. R. Hopper.

PLAIN.

Fig. 2113.



Oval F. R. Hopper.

WITH WOOD RIM.

Fig. 2114.



Fig. 2110.	Morrison's Washout Hopper	{ Cane and White	Price each	7.05
"	2111.	{ White	"	7.80
"	2112.	{ Cane and White.....	"	1.95
"	2113.	{ White	"	3.40
"	2114.	{ Cane and White.....	"	1.95
"	2113.	{ White	"	1.90
"	2114.	{ Cane and White.....	"	5.60
"	2114.	{ White	"	7.30
"	2114.	{ Cane and White.....	"	7.30

Weight, Per sq. foot in lbs.	2½	3	3½	4	4½	5	6	7	8
Thickness of Sheet, Inches.	.04215	.05058	.05901	.06744	.07587	.08430	.10116	.11802	.13488
Nearest Stubbs Wire Gauge.	19 F	18 F	17 F	16 F	15 F	14 F	13 F	11 S	10 F
Full Rolls.....Price per lb.	8½	8	8	8	8	8	8	8	8
Cut Rolls.....“	9	8½	8½	8½	8½	8½	8½	8½	8½

Lead Tacks.

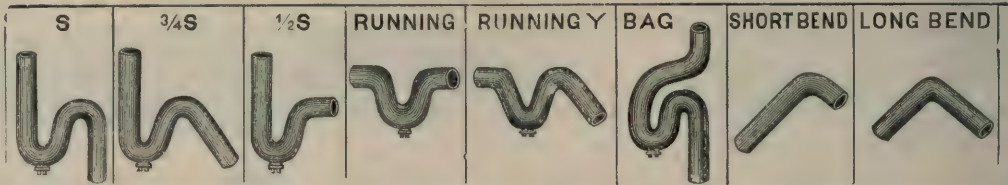
Fig. 2117.



Single Tacks	Price per lb.	.13
Double "	" "	.13

Lead Traps and Bends "Dubois."

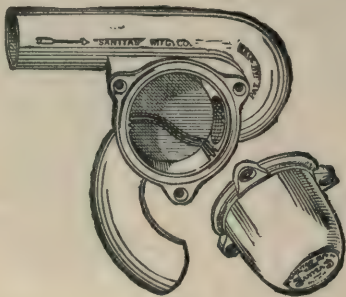
Fig. 2118.



Weights	6 lb. Lead.					8 lb. Lead.				
	1 1/4	1 1/2	2	3	4	1 1/4	1 1/2	2	3	4
Size, Internal Diam., Inches....										
S Trap.....Price each	50	65	90	1.50	2.00	70	80	1.35	2.00	2.75
3/4S Trap....."	50	65	90	1.50	2.00	70	80	1.35	2.00	2.75
1/2S Trap or P....."	40	50	75	1.25	1.50	60	70	1.00	1.50	2.00
Running Trap....."	40	50	75	1.25	1.50	60	70	1.00	1.50	2.00
Running Y Trap...."	50	65	90	1.50	2.00	70	80	1.35	2.00	2.75
Bag Trap....."	80	1.00	1.40	2.25	3.50	1.20	1.50	1.90	3.00	4.50
Short Bend....."	20	30	40	.65	.85	30	45	.60	.85	1.25
Long Bend....."	25	40	50	.85	1.15	..	..	....	....	....
Extra long Traps and Bends } per running foot Extra in } addition to the Regular Price. }	25	30	40	.55	.75	35	40	.50	.65	.90

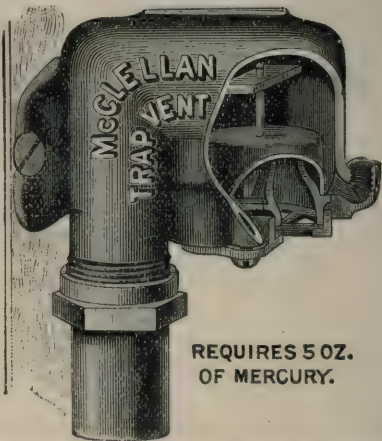
Sanitas Trap.

Fig. 2119.



McClellan's Vent Trap.

Fig. 2119 1/2.



	LEAD TRAPS.			N. P. BRASS TRAPS.	
	Glass Cup	Lead Cup	Cop. Cup	Trap only	With Pipes to Floor.
Fig. 2119. Sanitas Trap.....Price each	2.50	2.75	3.00	7.00	8.50
Fig. 2119 1/2. McClellan's Vent.....Price each	1 1/2 in.	4.00	2 in.	4.50	

Pump Cylinders.

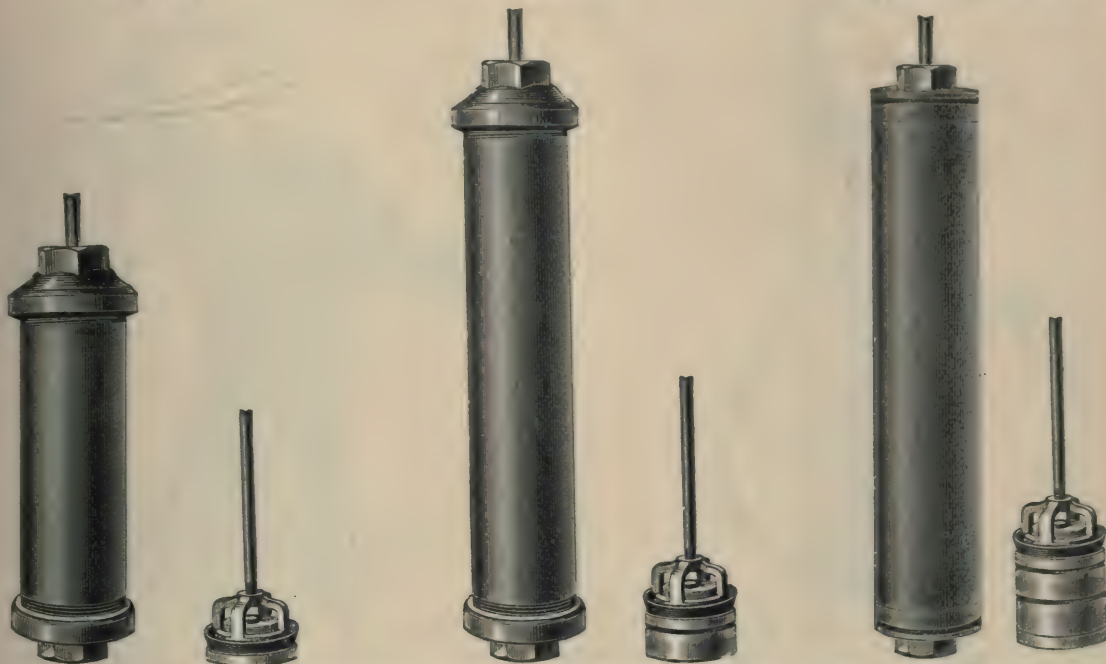
Shallow Well Cylinder.

Fig. 2120.

Deep Open Well Cylinder.

Fig. 2121.

Drilled Deep Well Cylinder.—Fig. 2122.

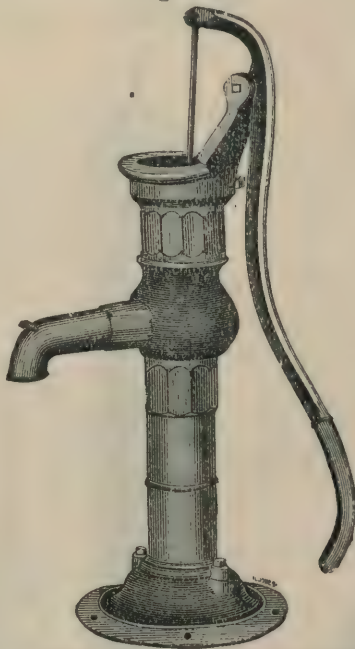


	Trade No.	Size, Inches.	A All Iron.	B Iron, Brass Lined.	C Brass Body.	D Brass Body and Plunger.
Fig. 2120. Shallow Well Cylinder with Short Plunger and Sand Valve Seats Price each	1	2½ x 9	4.35	.....	.....	.....
	2	3 x 9	5.00	.....	.....	.....
	3	3½ x 9	5.60	.....	.....	.....
	4	2½ x 10	4.35	7.75	8.00	8.75
	5	3 x 10	5.00	8.75	9.50	10.50
	6	3½ x 10	5.60	9.75	11.50	12.50
	7	4 x 10	6.25	10.50	14.00	15.00
	8	2½ x 11	5.17	8.50	11.50	12.50
	9	3 x 11	6.00	9.50	12.75	14.25
	10	3½ x 11	6.83	10.50	15.50	17.50
	11	4 x 11	7.62	12.50	21.50	24.00
	12	2½ x 13	6.50	9.25	11.75	13.00
	13	3 x 13	7.50	10.25	13.50	15.00
	14	3½ x 13	8.50	11.25	16.50	19.00
	15	4 x 13	10.00	14.00	23.75	27.00
	16	4½ x 13	12.50	17.00	28.50	32.00
Fig. 2121. For Deep Open Wells with Medium Plunger. Fig. 2122. For Drilled Wells with Medium Plunger. Price each.	1	2 x 13	.....	.....	10.75	12.00
	2	2½ x 13	6.50	9.25	11.75	13.00
	3	3 x 13	7.50	10.25	13.50	15.00
	4	3½ x 13	8.50	11.25	16.50	19.00
	5	4 x 13	10.00	14.00	23.75	27.00
	6	4½ x 13	12.50	17.00	28.50	32.00
	7	2 x 16	.....	.....	10.50	12.00
	8	2½ x 16	7.00	10.00	12.50	14.00
	9	3 x 16	8.00	11.00	14.00	15.50
	10	3½ x 16	9.00	12.00	18.50	21.00
	11	4 x 16	10.50	15.75	26.00	29.00
	12	4½ x 16	14.00	19.00	30.00	35.00

Cistern Pumps.

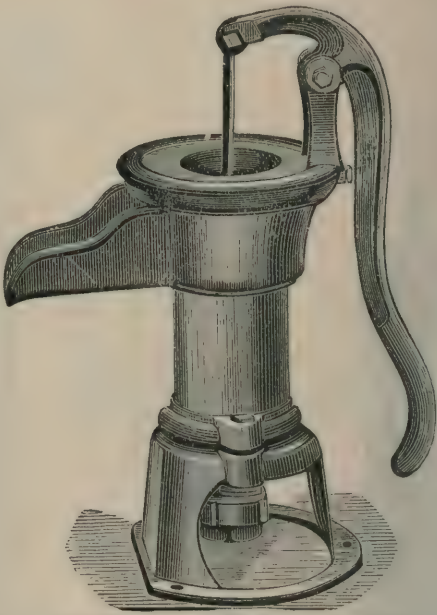
Close Top Cistern Pump.

Fig. 2123.



Close Top Pitcher Spout Pump.

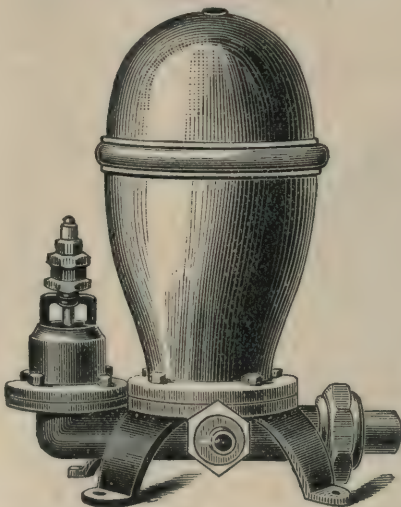
Fig. 2124.



Number	1	2	3	4	5
Diameter of Cylinder, Inches.....	2½	3	3½	4	4½
Size of Lead or Iron Pipe, Inches	1	1 or 1¼	1¼	1½ or 2	2
Fig. 2123. Cistern Pump, all Iron	4.50	5.50	6.50	....	....
" 2124. Pitcher Spout Pump	4.25	4.75	5.25	5.75	6.25

Improved Hydraulic Rams.

Fig. 2125.



Size.	Quantity of Water furnished by the Fountain to which the Ram is adapted.	Length of Drive Pipe.	CALIBRE OF PIPE.		Price.
			Drive.	Discharge.	
No. 2	2 Quarts to 2 Gal. per min.	25 to 50 ft.	¾ inch.	1 inch.	9.00
No. 3	1½ Gal. to 4 Gal. per min.	25 to 50 ft.	1 "	" "	11.00
No. 4	3 Gal. to 7 Gal. per min.	25 to 50 ft.	1¼ "	" "	14.00
No. 5	5 Gal. to 14 Gal. per min.	25 to 50 ft.	2 "	1 "	22.00

House Force Pumps.

WITH AIR CHAMBER AND
ONE OUTLET.

Fig. 2126.



WITH AIR CHAMBER, TWO OUTLETS
AND STOP COCK.

Fig. 2127.

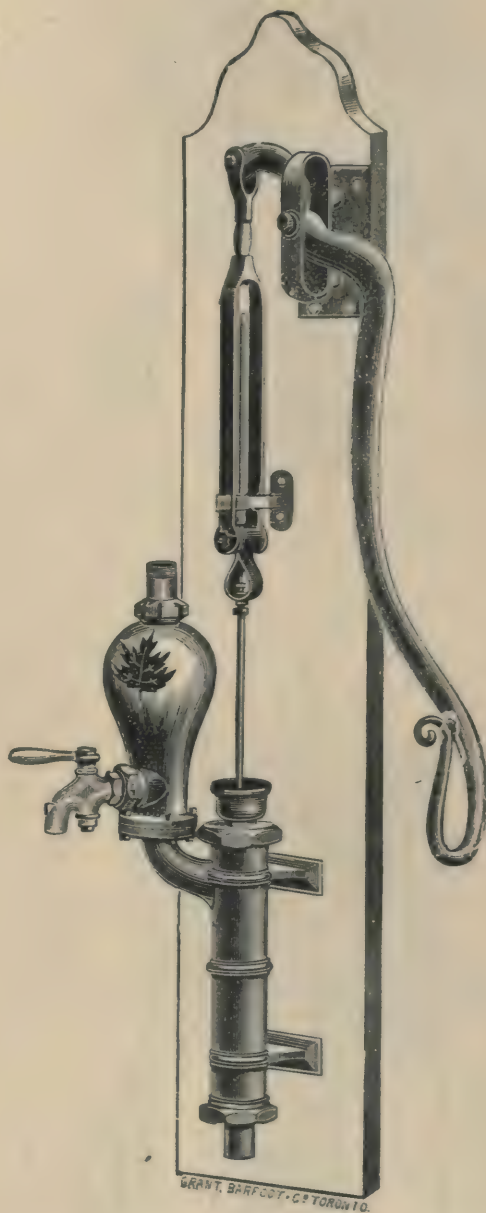


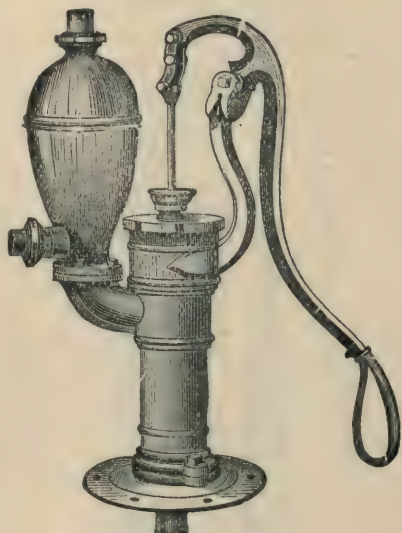
Fig. 2126.	No. 1, 2, 1/2 in. Cyl. for 1 1/4 L. or I. Pipe, Price each
" "	" 2, 3 " " 1 1/2 " "
" 2127.	" 1, 2 1/2 " " 1 1/4 " "
" "	" 2, 3 " " 1 1/2 " "

All Iron.	Brass with Iron Air Chamber.	All Brass.
19.00	40.00	50.00
23.00	54.00	64.00
21.50	42.50	51.00
25.50	56.50	65.00

Force Pumps.

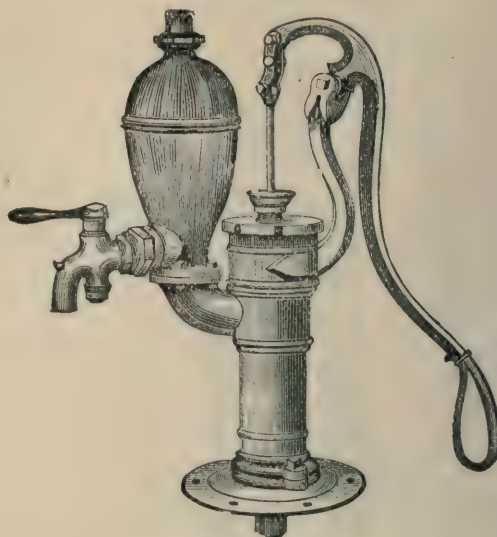
WITH AIR CHAMBER AND TWO
OUTLETS, ON BASE.

Fig. 2128.



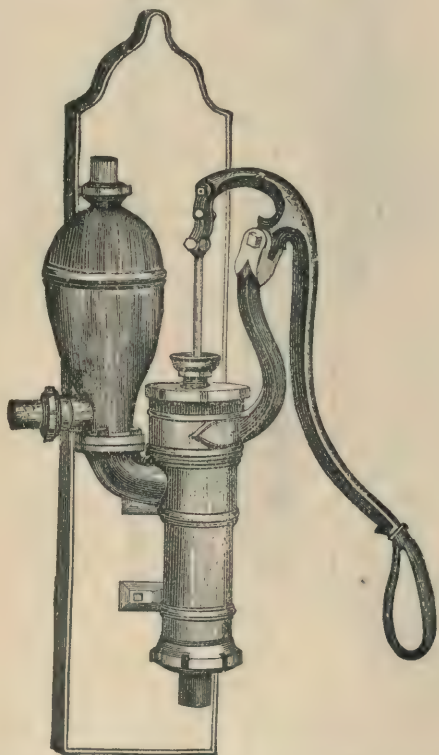
WITH AIR CHAMBER, TWO OUTLETS
AND STOP COCK, ON BASE.

Fig. 2129.



WITH AIR CHAMBERS AND TWO
OUTLETS, ON PLANK.

Fig. 2130.



WITH AIR CHAMBERS, TWO OUTLETS
AND STOP COCK, ON PLANK.

Fig. 2131.

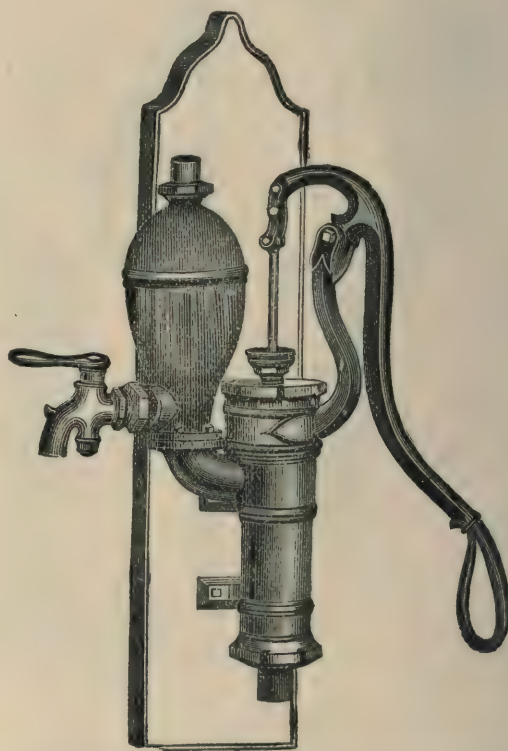


		Fig. 2128.	Fig. 2129.	Fig. 2130.	Fig. 2131.
No. 1, 2½ in. Cyl. for 1 or 1¼ in. Lead or Iron Pipe.	Iron..	11.00	11.00	12.50	12.50
	Brass. "	15.00	15.00	17.50	17.50
No. 2, 3 in. Cyl. for 1½ or 1¼ in. Lead or Iron Pipe.	Iron..	13.00	13.00	14.50	14.50
	Brass. "	17.00	17.00	18.50	18.50

Force Pumps.

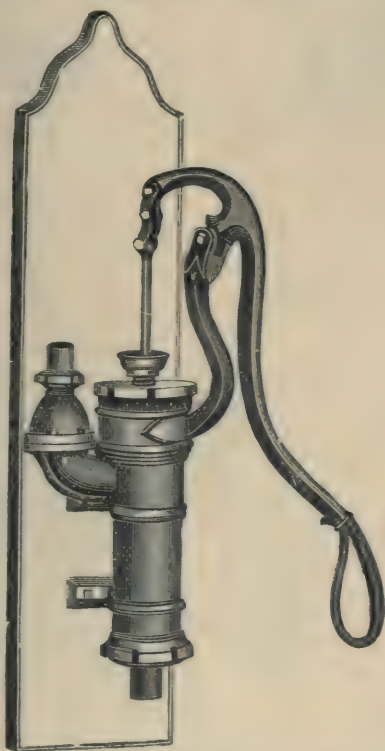
ON BASE WITHOUT AIR CHAMBER.
Fig. 2132.



ON BASE WITH AIR CHAMBER.
Fig. 2133.



ON PLANK WITHOUT AIR CHAMBER.
Fig. 2134.



ON PLANK, WITH AIR CHAMBER.
Fig. 2135.

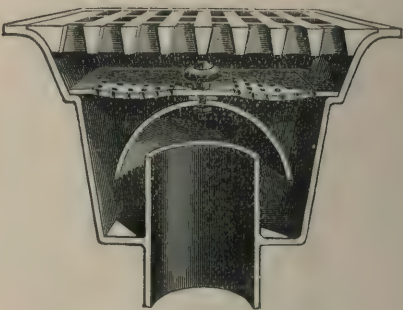


	Fig. 2132	Fig. 2133	Fig. 2134	Fig. 2135
No. 1—2½ in. Cyl. 1 or 1¼ { Iron..Price each	9.50	9.50	10.00	10.00
Lead or Iron Pipe..... { Brass. “	13.50	13.50	.....	.....
No. 2—3 in. Cyl. 1¼ or 1½ { Iron..Price each	11.00	11.00	12.00	12.00
Lead or Iron Pipe..... { Brass. “	15.00	15.00	.....	.....

Cesspools and Stench Traps.

16 in. Square Cesspool, with Bell Trap, for Stables or Yard.

Fig. 2136.

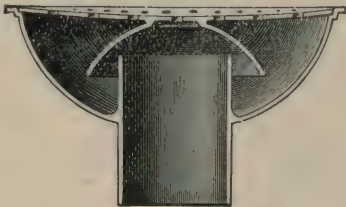
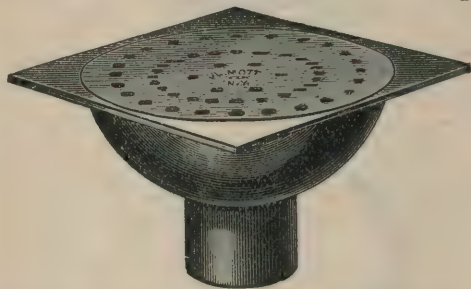


Section of 16 inch Cesspool.

16 inch Square Cesspool, With Bell Trap, price each.....\$3.60

13 in. Cesspool, with Bell Trap, for Yards and Stables.

Fig. 2137.



Section of 13 inch Cesspool.

6 Inch Stench
Trap.

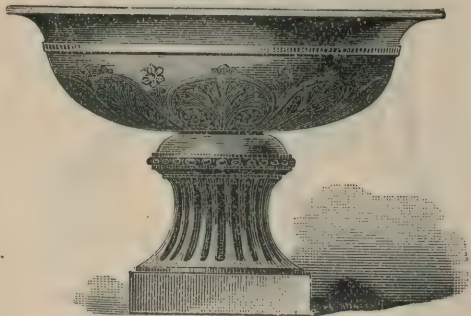
Fig. 2138.



Fig. 2137. 13 inch Square Cesspool, with Bell Trap.....	Price each	2.67
Fig. 2138. 6 inch Square Bell Stench Trap.....	"	.70

Horse Drinking Fountains

ROUND FOUNTAIN.
Fig. 2139.



Diameter of Basin, 4 feet 4 inches
Depth " 1 foot 3 "
Base, 2 feet 9 inches square

OVAL FOUNTAIN.
Fig. 2140.



Basin, 3 feet x 1 foot 6 inches
Base, 1 ft. 9 in. x 10½ inches.

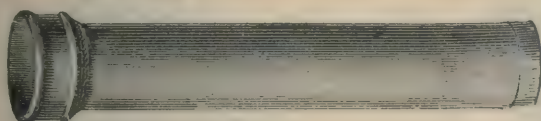
Description		Painted.	Bronzed.
Fig. 2139. Round Fountain.....	Price each	135.00	145.00
Fig. 2140. Oval "	"	47.25	54.00

Cast Iron Soil Pipe.

In 5 Feet Lengths.

SINGLE HUB.

Fig. 2141.



DOUBLE HUB.

Fig. 2142.



Fig. 2141.—Single Hub.

Size, Inches.....	2	3	4	5	6	7	8
Weight per Foot, Light Pipe, lbs.....	....	5	6½	....	....	....	....
Weight per Foot, Medium Pipe, lbs.....	....	6½	9	....	....	....	....
Weight per Foot, Extra Heavy, lbs.....	5½	9½	13	17	20	27	33½
Light.....Price per Foot	....	30	40	50	60	....	....
Medium....."	30	42	55	75	90	....	....
Extra Heavy....."	35	55	75	1.00	1.20	1.75	2.60

Fig. 2142.—Double Hub.

Size, inches.....	2	3	4	5	6
Light.....Price per Length	....	1.80	2.30	....	....
Medium....."	1.80	2.50	3.20	....	....
Extra Heavy....."	2.05	3.05	4.05	5.30	6.30

Bends.

SIXTEENTH.

Fig. 2143.



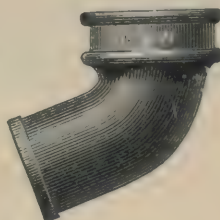
EIGHTH.

Fig. 2144



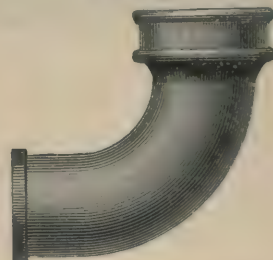
SIXTH.

Fig. 2145.



QUARTER.

Fig. 2146.

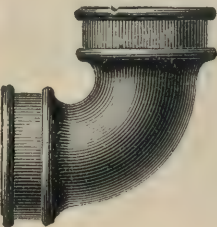


Size, inches.....	2	3	4	5	6	7	8
Fig. 2143 } Light.....Price each	40	55	75	1.00	1.20	....	....
to 2146 } Medium....."	45	65	95	1.20	1.50	....	....
	50	70	1.10	1.35	1.75	....	4.00

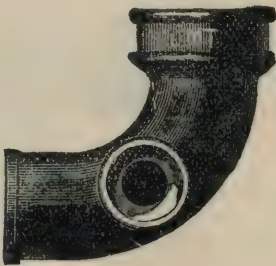
Cast Iron Soil Pipe Fittings.

Quarter Bends.

DOUBLE HUB.
Fig. 2147.



WITH INLET ON SIDE.
Fig. 2148.



WITH INLET ON HEEL.
Fig. 2149.

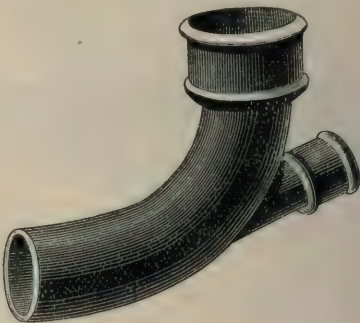


Fig. 2147.—Double Hub Quarter Bend.

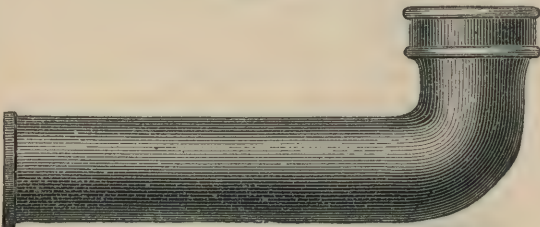
Size, Inches.....	2	3	4	5	6
Medium .....Price each	75	.95	1.25	....	....
Extra Heavy.....“	....	1.00	1.40	1.65	2.05

Figs. 2148 and 2149.—Quarter Bends with Inlets on Side and Heel.

Size of Pipe and Inlet.....	3 x 2	4 x 2	4 x 3	5 x 2	5 x 3	6 x 2	6 x 3	6 x 4
Light .....Price each	....	1.35	1.35	....	....	....	....	....
Medium“	1.25	1.55	1.55	....	....	....	....	....
Extra Heavy .....“	....	1.70	1.70	1.95	1.95	2.35	2.35	2.35

Long Quarter Bends.

Fig. 2150.



Return Bends

Fig. 2151.

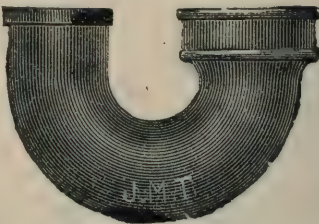


Fig. 2150.—Long Bends.

Size, Inches	9	11	18	36
Medium .....Price each	80	1.00	1.90	3.50
Extra Heavy .....“	....	....	2.25	4.00

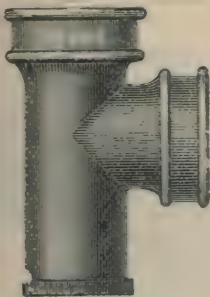
Fig. 2151.—Return Bends.

Size, Inches.....	2	3	4
Light .....Price each	....	....	1.25
Medium“	70	1.00	1.50
Extra Heavy.....“	....	....	1.75

Cast Iron Soil Pipe Fittings.

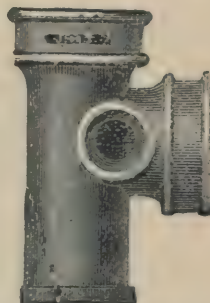
PLAIN T BRANCH.

Fig. 2152.



T BRANCH WITH SIDE INLET.

Fig. 2153.



T WITH HAND HOLE.

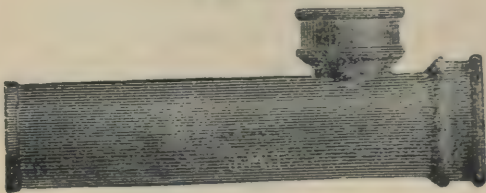
Fig. 2154.



Size, Inches.....	2 x 2	3 x 3	4 x 4	5 x 5	6 x 6	8 x 8	
Fig. 2152. Reducing Ties Sizes...	....	3 x 2	4 x 2	5 x 2	6 x 2	....
	....	....	4 x 3	5 x 3	6 x 3	....
	....	....	....	5 x 4	6 x 4	8 x 4	
	....	....	....	....	6 x 5	8 x 5	
	....	....	....	....	....	8 x 6	
Fig. 2153. With Inlet on Side, R. or L.	2 x 2	3 x 2	4 x 2	5 x 2	6 x 2	....
Fig. 2152.	Light Price each	60	.80	1.20	1.60	2.00	....
	Medium "	70	1.05	1.40	2.00	2.65	....
	Extra Heavy "	80	1.25	1.60	2.25	3.25	7.00
" 2126.	Light "	1.10	1.40	1.95	....	....	....
	Medium "	1.20	1.65	2.15	....	....	....
	Extra Heavy "	1.30	1.85	2.35	....	....	....
" 2127.	Light "	.75	1.00	1.25	....	....	....
	Medium .... "	....	....	....	....	....	....
	Extra Heavy "	1.00	1.50	1.75	2.25	3.00	7.50

LONG T BRANCHES.

Fig. 2155.



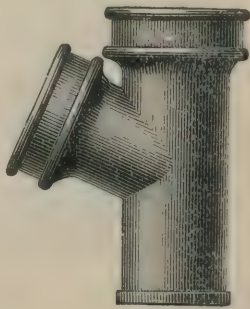
Size, Inches.....		3	4	5	6
18 inches in the Clear	Medium..... Price each	....	2.50	....	....
	Extra Heavy ..... "	....	....	....	....
24 " "	Medium.....	....	3.00	....	....
	Extra Heavy "	2.50	....	....	6.00
30 " "	Medium.....	....	4.00	....	....
	Extra Heavy ..... "	....	4.75	....	....
36 " "	Medium.....	....	4.50	....	....
	Extra Heavy ..... "	....	5.25	6.75	9.00

Cast Iron Soil Pipe Fittings.

Y Branches.

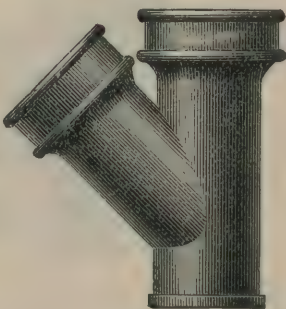
HALF Y BRANCH.

Fig. 2156.



Y BRANCH.

Fig. 2157.



T Y BRANCH.

Fig. 2158.



Size, inches	2 x 2	3 x 3	4 x 4	5 x 5	6 x 6	8 x 8		
Reducing Y Branches.....	....	3 x 2	4 x 2	5 x 2	6 x 2	....	
	....	....	4 x 3	5 x 3	6 x 3	....	
	....	....	....	5 x 4	6 x 4	8 x 4
	....	....	....	....	6 x 5	8 x 5
	....	....	....	....	....	8 x 6
Figs. 2156 to 2158 {	Light.....	Price Each	60	80	1.20	1.60	2.00
	Medium.....	“	70	1.05	1.40	2.00	2.65
	Extra Heavy.....	“	80	1.25	1.60	2.25	3.25	7.00

Double Y Branches.

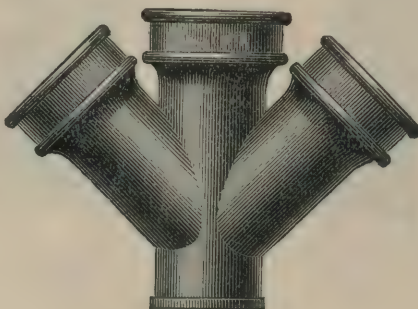
HALF Y BRANCH.

Fig. 2159.



Y BRANCH.

Fig. 2160.



T Y BRANCH.

Fig. 2161.



Size, inches.....	2	3	4	5	6	8		
Figs. 2159 to 2161 {	Light.....	Price each	1.00	1.25	1.65	2.25	3.00	....
	Medium.....	“	1.15	1.45	1.80	2.65	3.50	....
	Extra Heavy.....	“	1.25	1.60	2.00	3.00	4.00	9.00

NOTE.—Reducing Sizes of Double Y Branches are the same as Y Branches.

Cast Iron Soil Pipe Fittings.

Y Branches with Side Inlet, Right or Left.

Y BRANCH.

Fig. 2162.



T Y BRANCH

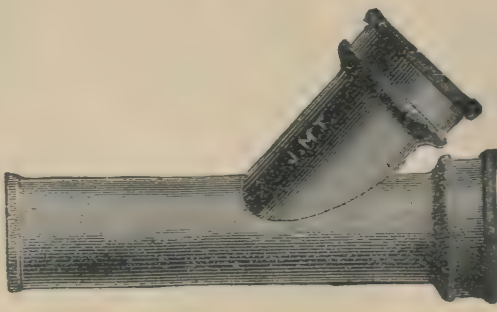
Fig. 2163.



Size, inches.....		3	4	5	6	8	
Figs. 2162 and 2163	Light, with 2 in Inlet.....	Price each	1.40	1.80	2.20	2.60	....
	Medium ".....	"	1.65	2.00	2.60	3.25	....
	Extra Heavy ".....	"	1.85	2.20	2.85	3.85	7.60

LONG Y BRANCH.

Fig. 2164.



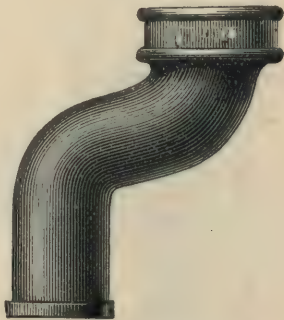
Size, inches.....		3	4	5	6
18 in. in the Clear	{ Light.....	Price each	....	....	....
	{ Medium.....	“	....	2.50	....
	{ Extra Heavy.....	“	....	....	....
24 in. in the Clear	{ Light.....	“	....	....	....
	{ Medium.....	“	....	3.00	....
	{ Extra Heavy.....	“	2.50	....	6.00
30 in. in the Clear	{ Light.....	“	....	....	....
	{ Medium.....	“	....	4.00	....
	{ Extra Heavy.....	“	....	4.75	....
36 in. in the Clear	{ Light.....	“	....	....	....
	{ Medium.....	“	....	4.50	....
	{ Extra Heavy.....	“	5.25	6.75	9.00

Cast Iron Soil Pipe Fittings.

Offsets.

PLAIN.

Fig. 2165.



WITH 2 IN. INLET.

Fig. 2166.

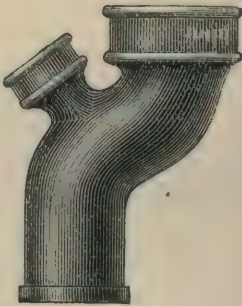
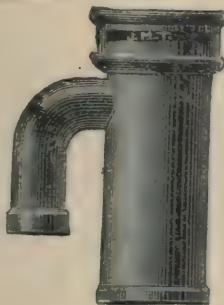


	Fig. 2165.			Fig. 2166.		
	Light.	Medium.	Ex Heavy	Light.	Medium.	Ex Heavy
2 inch to Offset 2 inches.. Price each	40	50	60	....	....	....
2 " " 4 " .. "	50	70	90	....	....	....
2 " " 6 " .. "	60	80	1.00	....	....	....
2 " " 8 " .. "	....	90	1.10	....	....	....
2 " " 10 " .. "	....	1.00	1.20	....	....	....
2 " " 12 " .. "	....	1.10	1.25	....	....	....
3 " " 4 " .. "	75	.95	1.10	....	....	....
3 " " 6 " .. "	80	1 00	1.20	....	....	....
3 " " 8 " .. "	90	1.15	1.35	....	....	....
3 " " 10 " .. "	95	1.20	1.40	....	....	....
3 " " 12 " .. "	1.00	1.25	1.45	....	....	....
4 " " 3 " .. "	....	1.00	....	....	....	....
4 " " 4 " .. "	85	1.05	1.25	1.45	1.65	1.85
4 " " 6 " .. "	1.00	1.20	1.40	1.60	1.80	2.00
4 " " 8 " .. "	1.15	1.35	1.50	1.75	1.95	2.10
4 " " 10 " .. "	1.25	1.45	1.60	1.85	2.05	2.20
4 " " 12 " .. "	1.40	1.60	1.80	2.00	2.20	2.40
4 " " 14 " .. "	1.65	1.85	2.00	2.25	2.45	2.60
4 " " 16 " .. "	1.80	2.05	2.25	2.40	2 65	2.85
4 " " 18 " .. "	....	2.50	....	....	....	....
4 " " 20 " .. "	2.25	2.65	....	....	....	....
5 " " 4 " .. "	1.40	1.60	1.80	....	....	....
5 " " 6 " .. "	1.60	1.80	2.00	....	....	....
5 " " 8 " .. "	1.80	2.05	2.25	....	....	....
5 " " 10 " .. "	1.90	2.20	2.40	....	....	....
5 " " 12 " .. "	2.00	2.25	2.50	....	....	....
5 " " 14 " .. "	....	2.35	2.75	....	....	....
5 " " 16 " .. "	....	2.40	3.00	....	....	....
6 " " 4 " .. "	2.00	2.50	3.00	....	....	....
6 " " 6 " .. "	2.25	2.75	3.25	....	....	....
6 " " 8 " .. "	2.40	2.95	3.50	....	....	....
6 " " 10 " .. "	2.60	3.20	3.75	....	....	....
6 " " 12 " .. "	2.75	3.35	4.00	....	....	....
6 " " 14 " .. "	....	3.50	4.30	....	....	....
6 " " 16 " .. "	....	3.75	4.60	....	....	....
8 " " 6 " .. "	....	....	8.00	....	....	....

Cast Iron Soil Pipe Fittings.

Vent Branches.

BACK AIR VENT BRANCH.
Fig. 2167.



INVERTED Y BRANCH.
Fig. 2168.



Size, inches.....		2 x 2	3 x 2	4 x 2 4 x 3	5 x 2 5 x 4	6 x 4
Fig. 2167	Light.....	Price each				
	Medium.....	1.00	1.50	1.75	2.40	3.50
	Extra Heavy.....	1.25	1.75	2.00	2.75	4.00
Fig. 2168	Light.....	.....	.....	.....	.....	.....
	Medium.....	1.00	1.50	1.75	2.40	3.50
	Extra Heavy.....	.....	.....	.....	.....	.....

INCREASERS.
Fig. 2169.



REDUCERS.
Fig. 2170.



Fig. 2169.—Increasers.

Size, inches.....	2 x 3	2 x 4	3 x 4	4 x 5	4 x 6	5 x 6
Light.....	Price each					
Medium.....	.....	.....	.....	.....	.....	.....
Extra Heavy.....	1.00	1.00	1.25	1.60	1.65	2.10

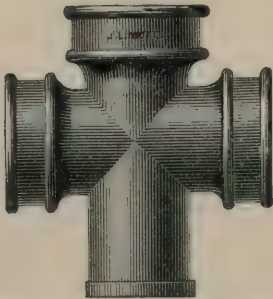
Fig. 2170.—Reducers.

Sizes, inches.....	3 x 2	4 x 2 4 x 3	5 x 2 5 x 3 5 x 4	6 x 4 6 x 5	8 x 6
Light.....	Price each				
Medium.....	45	50	70	80	.....
Extra Heavy.....	50	55	75	85	.....
	55	50	80	90	2.50

Cast Iron Soil Pipe Fittings.

Crosses.

Fig. 2171.



Size, inches.....	2	3	4	5	6	8
Light.....Price each	1.00	1.25	1.65	2.25	3.00	....
Medium....."	1.15	1.45	1.80	2.65	3.50	....
Extra Heavy....."	1.25	1.60	2.00	3.00	4.00	9.00

NOTE.—Reducing Crosses are the same size as Reducing T's and Y's.

DOUBLE HUB. Fig. 2172.	SINGLE HUB. Fig. 2173.	PLUG OR STOPPER. Fig. 2174.	STRAIGHT SLEEVES. Fig. 2175.	THIMBLES. Fig. 2176.	THIMBLES WITH COVERS Fig. 2177.
					

Size, inches.....		2	3	4	5	6	8	
Fig. 2172 {	Light	Price each	30	45	65	75	80	....
	Medium	"	35	50	70	85	1.00	....
	Extra Heavy	"	30	55	75	90	1.15	2.50
Fig. 2173 {	Light	"	25	35	40	60	75	....
	Medium	"	30	38	45	70	90	....
	Extra Heavy	"	35	40	50	75	1.00	....
Fig. 2174 {	Light	"	..	25	30	..	....	....
	Medium	"	20	30	35	43	60	....
	Extra Heavy	"	25	35	40	50	70	....
Fig. 2175 {	Light	"	30	45	65	75	80	....
	Medium	"	35	50	70	85	1.00	....
	Extra Heavy	"	40	55	75	90	1.15	....
Fig. 2176 {	Light	"	15	25	30	35	45	....
	Medium .....	"	..	..	..	..	..	....
	Extra Heavy .....	"	..	..	60	..	..	....
Fig. 2177 {	Light	"	30	50	60	70	90	....
	Medium .....	"	..	..	..	..	..	....
	Extra Heavy .....	"	..	..	1.20	..	..	....

Cast Iron Soil Pipe Fittings.

Saddle Hubs and Pipe Bends.

T Hub.

Fig. 2178.

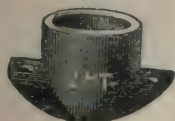
**Half Y Hub.**

Fig. 2179.

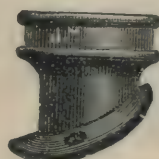
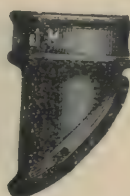
**Y Hub.**

Fig. 2180.

**Pipe Bend.**

WITH OUTLET.

Fig. 2181.

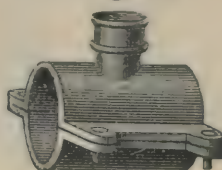
**Pipe Bend.**

Fig. 2182.



Sizes of Saddle Hubs, T's, Half Y's
and Y's and Pipe Bends with Outlets

			2 x 2	3 x 3	4 x 4	5 x 5	6 x 6	8 x 8
			....	3 x 2	4 x 3	5 x 4	6 x 5	8 x 6
			....	....	4 x 2	5 x 3	6 x 4	8 x 5
			....	....	....	5 x 2	6 x 3	8 x 4
			....	....	....	....	6 x 2	8 x 3
			....	....	....	....	....	8 x 2
Fig. 2178.	Light	Price each	30	50	60	75	1.10	1.50
	Medium .....	"	..	..	..	....	....	....
	Extra Heavy	"	40	65	80	1.00	1.40	2.25
Figs. 2179 & 2180.	Light	"	35	55	70	90	1.25	2.00
	Medium .....	"	..	..	..	....	....	....
	Extra Heavy	"	45	70	90	1.15	1.55	3.00
Fig. 2181.	Light	"	75	90	1.10	1.45	1.90	3.00
	Medium .....	"	..	..	....	....	....	....
	Extra Heavy	"	1.50	1.75	2.00	2.75	3.50	5.00
" 2182.	Light	"	45	55	70	1.00	1.40	2.25
	Medium .....	"	..	..	1.00	....	....	....
	Extra Heavy	"	90	1.00	1.50	2.00	2.75	4.00

Pipe Rests.

Fig. 2183.

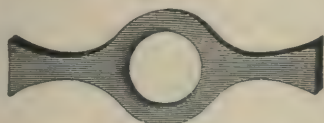
**Roof Irons.**

Fig. 2184.

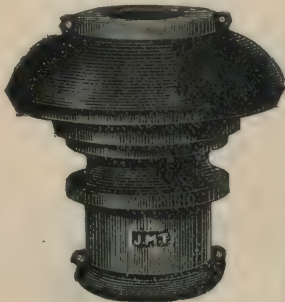


Size, Inches.....		2	3	4	5	6	8
Fig. 2183.	Light .....Price each	30	40	50	60	70	1.10
	Medium .... “	....	....	....	....	....	....
	Extra Heavy “	40	55	65	80	1.00	1.75
“ 2184.	Light “	90	1.15	1.30	1.50	1.80	....
	Medium .... “	....	....	....	....	....	....
	Extra Heavy “	....	....	....	....	....	....

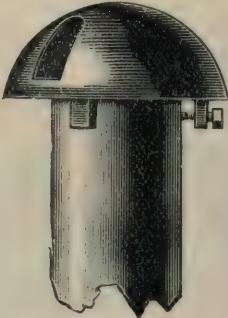
Cast Iron Soil Pipe Fittings.

Ventilating Caps.

ORNAMENTAL CAP.
Fig. 2185



PATENT VENTILATING CAP.
Fig. 2186.



VENTILATING CAP.
Fig. 2187.



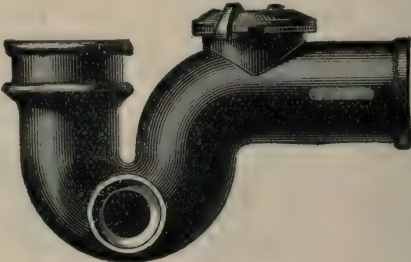
Size, inches.....	2	3	4	5	6
Fig. 2185. Cast Iron.....Price each	....	....	1.80	....	....
Fig. 2186. Patent Cap....."	....	....	50	....	....
" 2187. Plain Caps, Light....."	40	60	80	1.10	1.50
" " " " Medium....."	....	80	1 00	....	....

Traps.

S TRAP WITH INLET ON HEEL.
Fig. 2188.



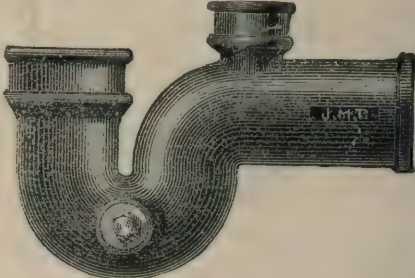
1/2 S TRAP WITH INLET ON SIDE.
Fig. 2189.



S TRAP WITH 2 OR 3 INCH VENT AND BRASS SCREW.
Fig. 2190



1/2 S TRAP WITH VENT AND BRASS SCREW.
Fig. 2191



Size, Inches.....		2	3	4	5	6
Figs. 2188 and 2189	Light.....Price each	1.40	1.85	2.35	3.60	4.60
	Medium....."	1.60	2.35	3.10	4.10	5.35
	Fxtra Heavy....."	1.85	2.60	3.35	4.60	6.10
Figs. 2190 and 2191	Light....."	3.30	3.75	4.25	5.50	6.50
	Medium....."	....	....	....	....	....
	Extra Heavy....."	3.75	4.50	5.25	6.50	8.00

Cast Iron Soil Pipe Fittings.

Traps.

Fig. 2192.—S TRAP WITH HAND HOLE.



Fig. 2193.—S TRAP WITH 2 OR 3 IN. VENT.

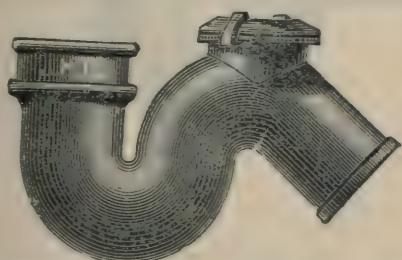
Fig. 2194.— $\frac{3}{4}$ S TRAP WITH HAND HOLE.Fig. 2195.— $\frac{3}{4}$ S TRAP WITH 2 OR 3 IN. VENT.

Fig. 2196.—HALF S TRAP WITH HAND HOLE

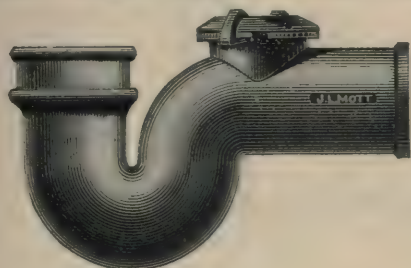


Fig. 2197.—HALF S TRAP WITH 2 OR 3 IN. VENT.

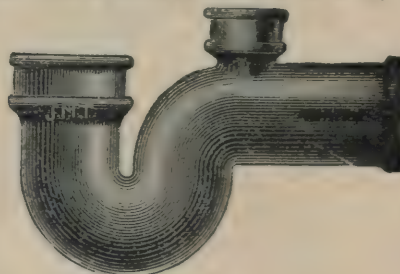


Fig. 2198.—RUNNING TRAP WITH HAND HOLE.

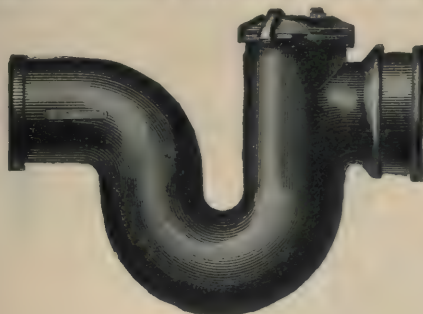
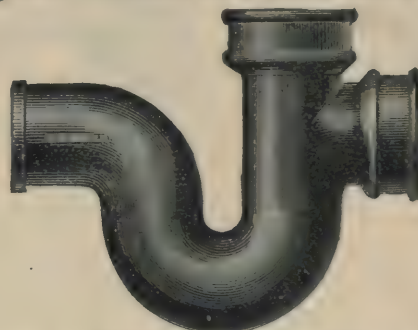


Fig. 2199.—RUNNING TRAP WITH HUB FOR VENT.



Size, Inches.....		2	3	4	5	6	
Figs. 2192 to 2198 inclusive.	Light.....	Price each	80	1.25	1.75	3.00	4.00
	Medium	"	1.00	1.75	2.50	3.50	4.75
	Extra Heavy	"	1.25	2.00	2.75	4.00	5.50

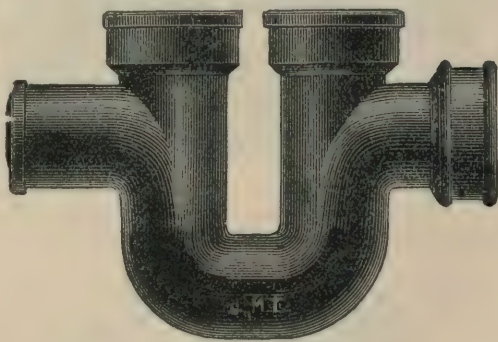
Fig. 2199 add 60c. to above prices.

Cast Iron Soil Pipe Fittings.

Traps.

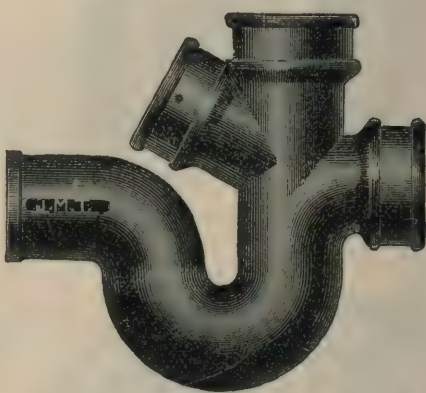
RUNNING TRAP WITH DOUBLE VENT.

Fig. 2200.



Y RUNNING TRAP.

Fig. 2201.



Size, Inches.....		3 x 2	4 x 4	5 x 4	6 x 4	8 x 6
Fig. 2200	Light.....	Price each				
	Medium.....	2.50	3.50	.....	.....	.....
	Extra heavy.....	.....	.....	.....	.....	.....
Fig. 2201	Light.....	Price each				
	Medium.....	.....	3.50	.....	.....	.....
	Extra heavy.....	.....	.....	.....	.....	.....

Soil Pipe Straps and Hooks, Wrought Iron.

PIPE HOOK TO DRIVE.

Fig. 2202.



PIPE STRAP, STRAIGHT WALL.

Fig. 2203.



PIPE STRAP, CORNER.

Fig. 2204.



Size of Soil Pipe, inches.....	2	3	4	5	6	8
Fig. 2202, Pipe Hook to Drive.....	.09	.14	.18	.25	.40	.60
" 2203, Pipe Strap, Straight Wall... ..	.09	.14	.18	.25	.40	.60
" 2204, " Corner.....	.09	.14	.18	.25	.40	.60

Morrison's Patent Compression Cushion, Bath, Basin and Bibb Cocks.

Noiseless and Durable.

The attention of Architects and Plumbers is called to this new improvement in the Valves of Basin Cocks, Bibbs, Etc. The Stem and working parts being made perfectly true, ensure smoothness in working, and consequently last longer; and the Valve being provided with a Rubber Cushion makes it tight with the minimum of pressure, and stands a much higher pressure than the old style of compression work.

The Basin Cock illustrated below, we recommend as a first-class pattern both for its looks and durability, and also for its shape which admits of it easily being cleaned.

Fig. 2205.

WITH ROUND BRASS HANDLE.



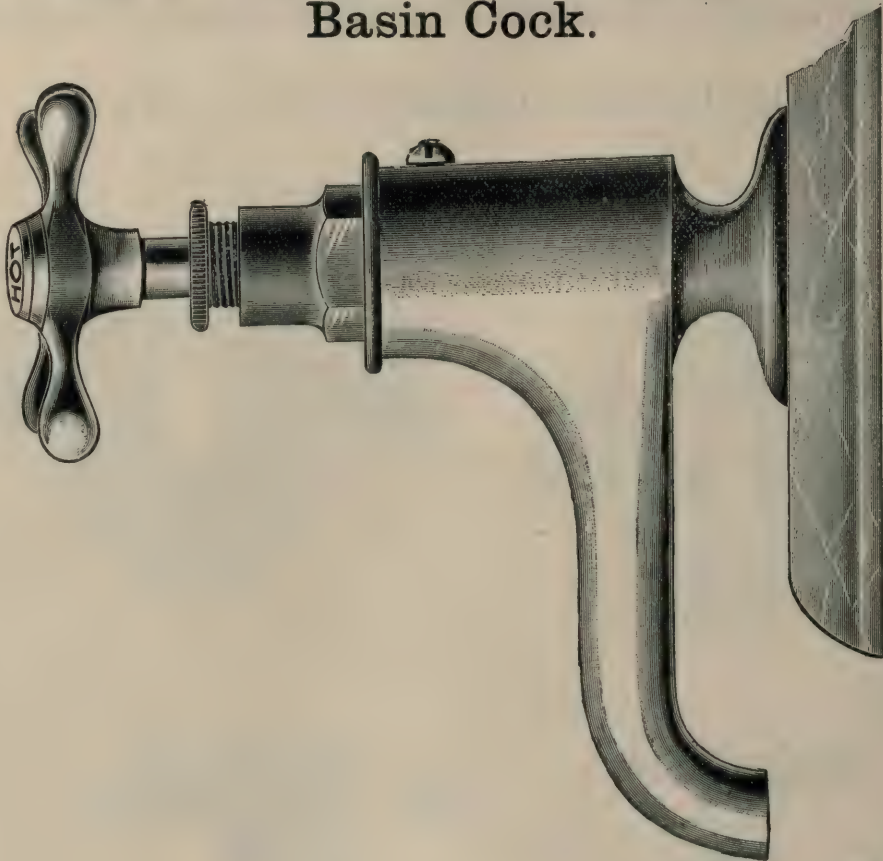
Sectional View of Spindle.

Finished	Price per dozen	36.00
Nickel Plated	" "	40.00

Morrison's Patent Compression Cushion
Basin Cock.

Fig. 2207.

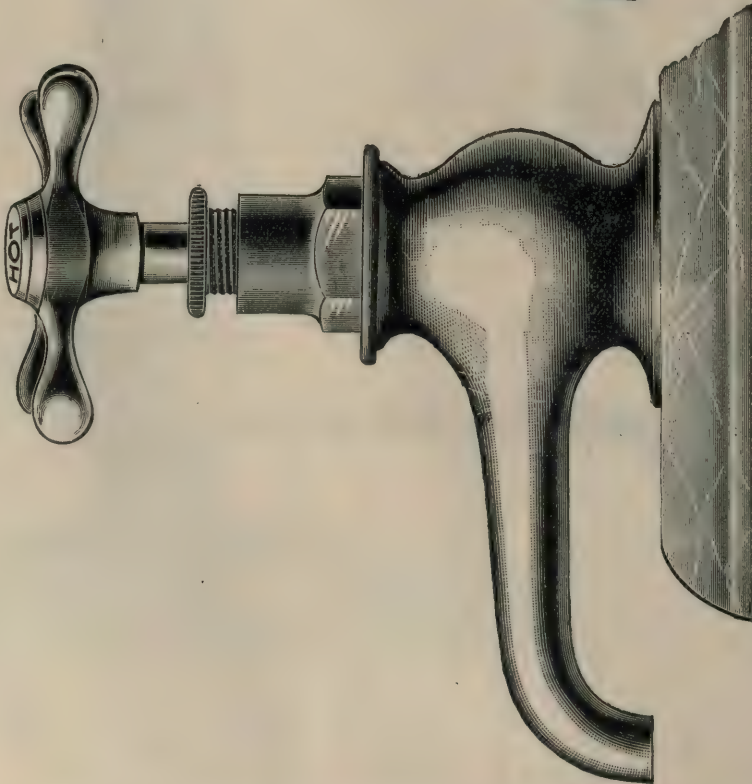
WITH X HANDLE, HOT OR COLD.



Finished.....Price per dozen 36.00
Nickel Plated " 40.00

Fig. 2206.

WITH X HANDLE, HOT OR COLD.



Finished.....Price per dozen 27.00
Nickel Plated " 31.00

Morrison's Patent Compression Cushion Bath Cocks.

Fig. 2208.—(Registered.)—WITH CROSS HANDLE, HOT AND COLD.



Fig. 2209.—(Registered.)—WITH ROUND BRASS HANDLE.

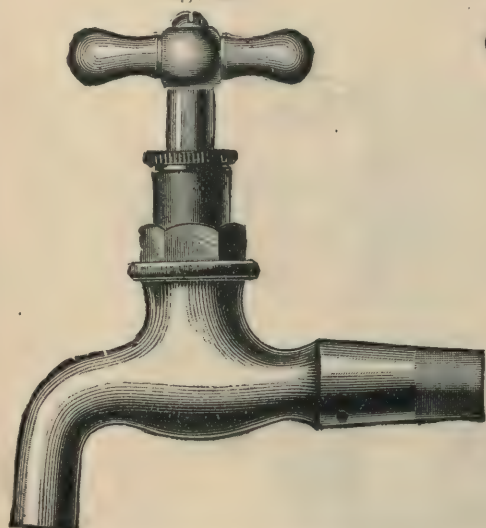


		Price each	
Fig. 2208.	Finished.....	8.00	
" "	Nickel Plated	9.00	
" 2209.	Finished.....	8.00	
" "	Nickel Plated	9.00	

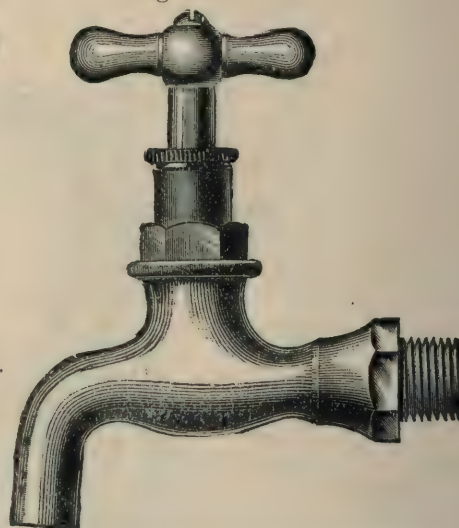
Morrison's Patent Compression Cushion Bibbs

FOR LEAD PIPE.
Fig. 2210.

FOR IRON PIPE.
Fig. 2211.



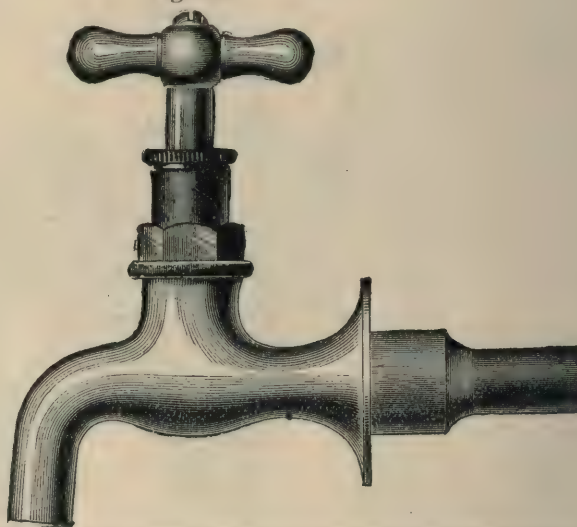
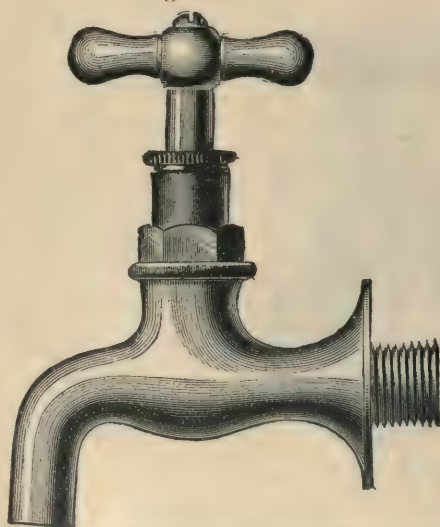
Section of Spindle.



Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$		
Fig. 2210.	Finished.....	Price each	12.00	14.00	
"	"	Nickel Plated	"	14.50	16.50
"	2211.	Finished	"	13.00	15.00
"	"	Nickel Plated.....	"	15.00	17.50

FOR IRON PIPE,
WITH FLANGE AND OUTSIDE SCREW.
Fig. 2212.

WITH FLANGE AND THIMBLE.
Fig. 2213.



Size, Inches		$\frac{1}{2}$	$\frac{5}{8}$
Fig. 2212. Finished.....	Price per dozen	18.00	20.50
“ “ Nickel Plated	“ “	20.50	23.00
“ 2213. Finished.....	“ “	20.00	23.00
“ “ Nickel Plated	“ “	23.50	26.50

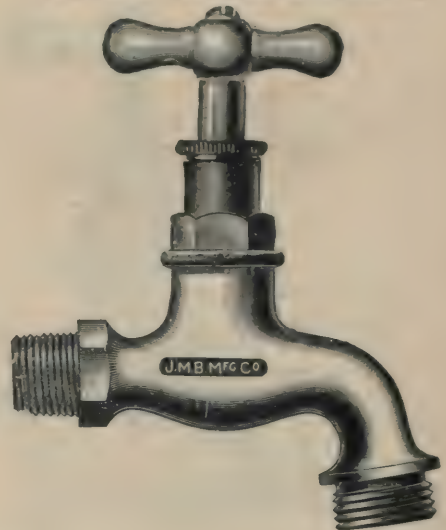
If with Cross Handles for Hot or Cold.....Price per dozen extra net 1.25

Morrison's Patent Compression Cushion Bibbs.

Fig. 2214.—FOR LEAD AND HOSE.



Fig. 2215.—FOR IRON AND HOSE.



Size, inches.....	$\frac{1}{2}$	$\frac{3}{8}$
Fig. 2214, Finished.....	Price per dozen 13.00	15.00
" " Nickel plated.....	" " " 15.50	17.50
" 2215, Finished.....	" " " 14.00	16.00
" " Nickel plated.....	" " " 16.50	18.50

FOR HOSE, WITH FLANGE AND OUTSIDE SCREW.
Fig. 2216.FOR HOSE, WITH FLANGE AND THIMBLE.
Fig. 2217.

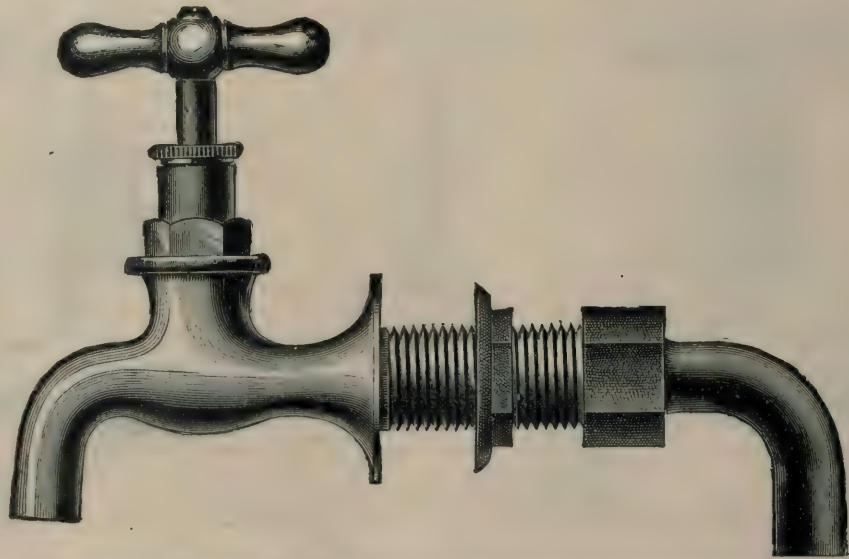
Size, inches.....	$\frac{1}{2}$	$\frac{3}{8}$
Fig. 2216 Finished.....	Price per dozen 19.00	21.50
" " Nickel plated.....	" " " 21.50	24.00
" 2217 Finished.....	" " " 21.00	24.00
" " Nickel plated.....	" " " 24.50	27.50

If with Cross Handles for Hot or Cold, price per dozen extra, net \$1.25.

Morrison's Patent Compression Cushion Bibbs

Fig. 2218.—WITH FLANGE, NUT AND BENT COUPLING.

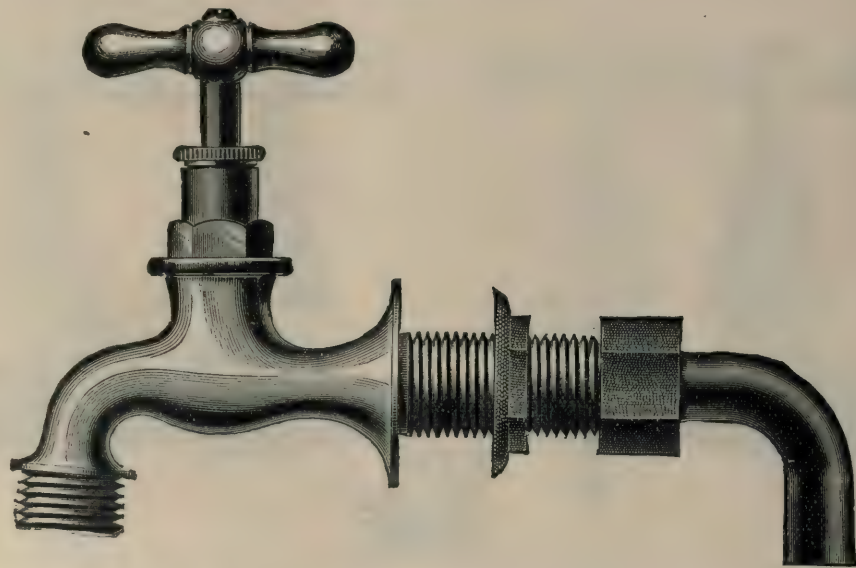
PLAIN.



Size, inches.....	$\frac{1}{2}$	$\frac{5}{8}$
Fig. 2213, Finished.....	Price per doz.	27.00
“ “ Nickel plated.....	“ “	30.50
		34.00
		37.50

Fig. 2219.— WITH FLANGE NUT AND BENT COUPLING.

FOR HOSE.



Size inches.....		$\frac{1}{2}$	$\frac{5}{8}$
Fig. 2214, Finished.....	Price per dozen	28.00	35.00
“ “ Nickel plated.....	“ “ “	31.50	38.50

Other kinds besides these illustrated, same list as ordinary Compression Bibbs with stuffing box.

If with Cross Handles for Hot or Cold, price per dozen extra net, \$1.25.

Morrison's Patent Compression Cushion Stop Cocks.

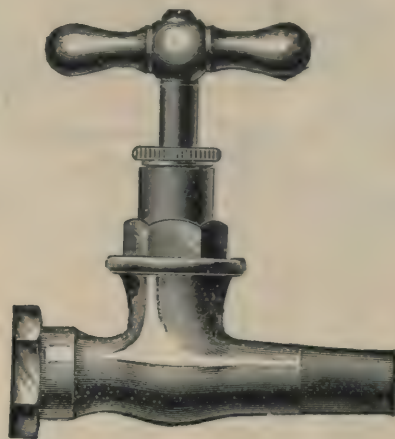
FOR LEAD PIPE.

Fig. 2220.



FOR LEAD AND IRON PIPE.

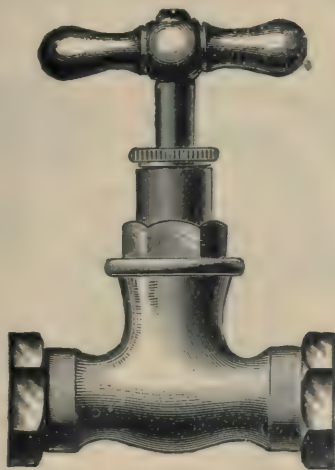
Fig. 2221.



Size, inches.....		$\frac{1}{2}$	$\frac{5}{8}$
Fig. 2220, Finished.....	price per dozen	13.00	15.00
" " Nickel plated.....	" " "	15.50	17.50
" 2221, Finished.....	" " "	13.50	16.00
" " Nickel plated.....	" " "	16.00	18.50

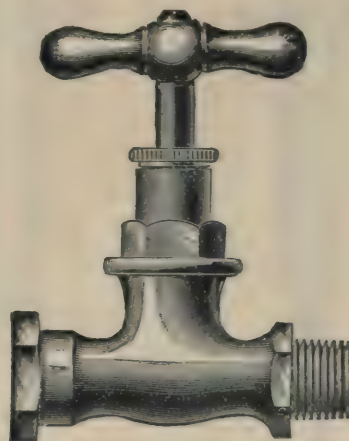
FOR IRON PIPE.

Fig. 2222.



FOR IRON PIPE, M. AND F.

Fig. 2223.



Size, Inches.....		$\frac{1}{2}$	$\frac{5}{8}$
Fig. 2222, Finished.....	Price per dozen	14.00	17.00
" " Nickel Plated.....	" " "	16.50	19.50
" 2223, Finished.....	" " "	14.00	17.00
" " Nickel Plated.....	" " "	16.50	19.50

Soap Tray.

Fig. 2224.—THE "GEM."

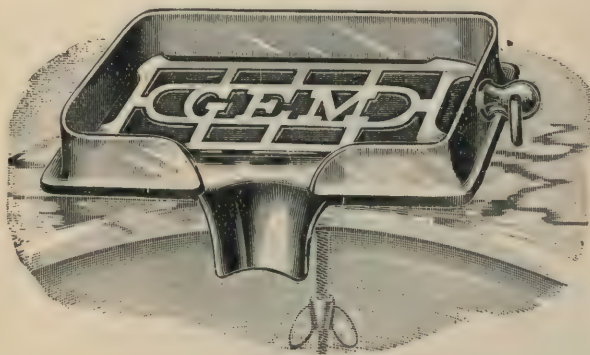
**Soap Tray.**

Fig. 2225.—WITH TOOTH BRUSH HOLDER.

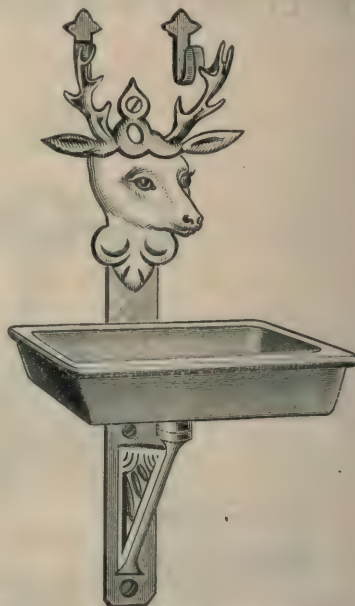


Fig. 2224. Nickel Plated	Price each	2.00
" 2225. "	"	5.00

Beer Pump.

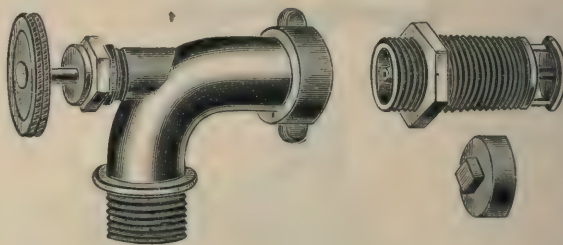
Fig. 2226.—WITH DOUBLE OUTLET.

**Beer Pump.**

Fig. 2227.—WITH LONG BODY AND DOUBLE OUTLET ON FRAME.

**Racking Valve and Faucet.**

Fig. 2228.

**Beer Pumps.**

		Finished.	N. Plated.
Fig. 2226	Price each	6.50	....
" 2227	"	8.00	8.50

Racking Valve and Faucet.

Size, Inches	1	1 1/4	1 1/2	2
Fig. 2228. Valve only with Cap	1.60	1.80	2.00	3.00
" " Faucet and Valve complete	5.00	6.00	7.50	10.00

Automatic Sight Feed Cylinder Lubricators.

The "Empress."

Fig. 2229.
WITH PLUG.
FOR STATIONARY ENGINES.

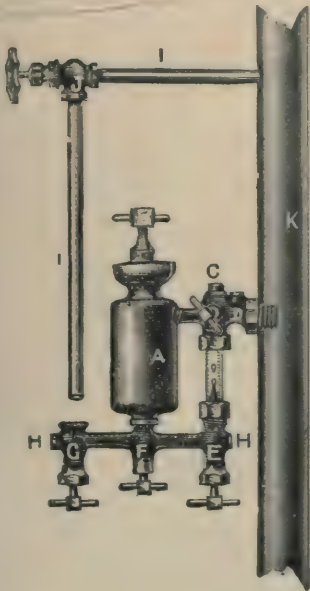
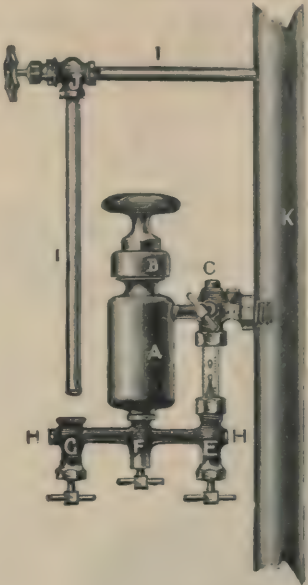


Fig. 2230.
WITH CAP.
FOR PORTABLE ENGINES.



Capacity of Cups, in Pints	$\frac{1}{3}$	$\frac{1}{2}$	1
Finished.....Price each	4.50	5.00	8.00
Nickel Plated"	5.00	6.00	9.00

The J. M. T.

Fig. 2231.
SINGLE SIGHT FEED.

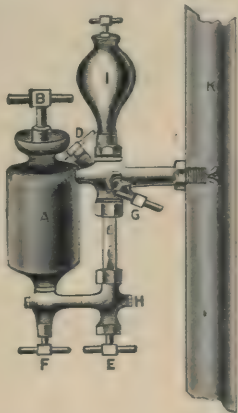
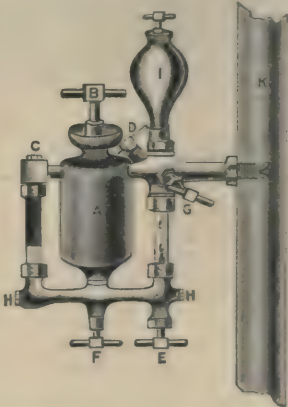


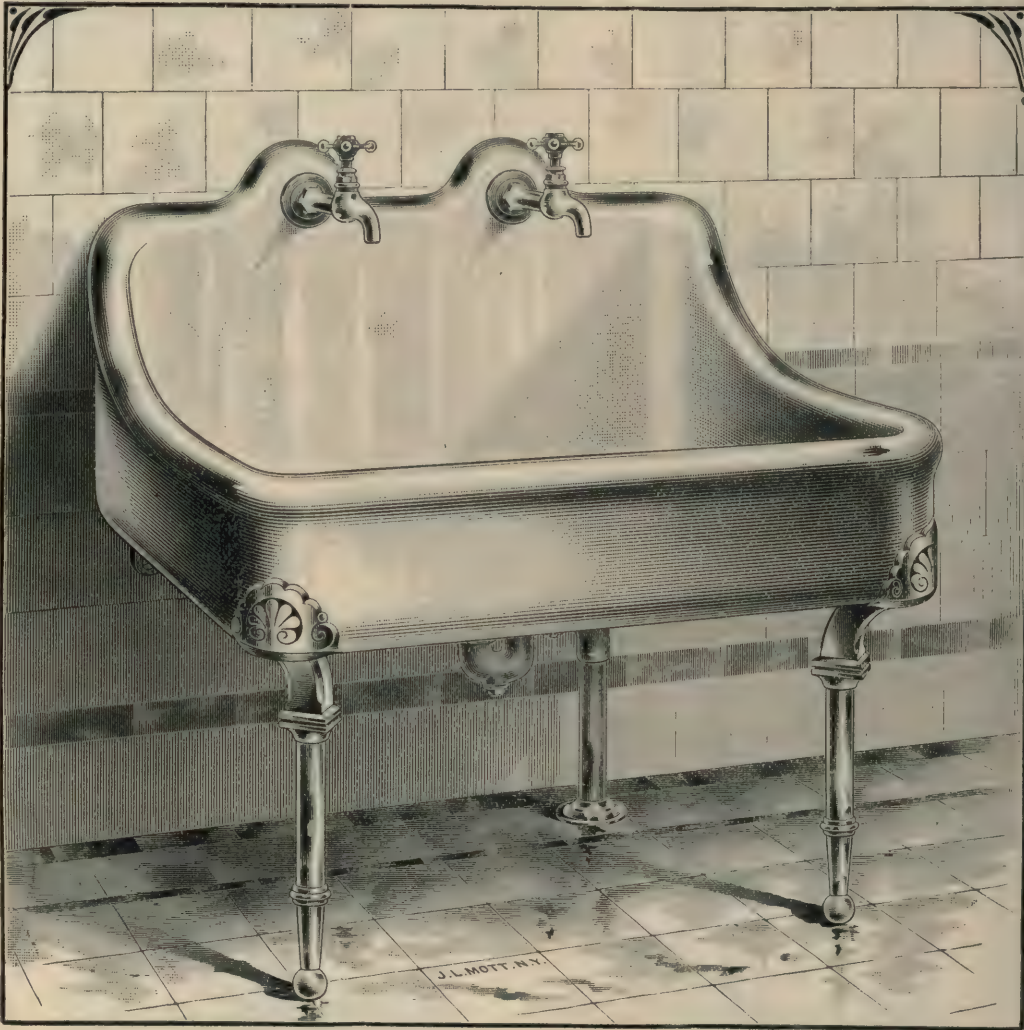
Fig. 2232.
WITH SIGHT FEED, AND OIL GAUGE GLASS



Capacity of Cups, in Pints	$\frac{1}{3}$	$\frac{1}{2}$	1
Fig. 2231. Single Sight Feed, Finished	5.00	5.50	9.00
" " " Nickel Plated	5.50	6.50	10.00
" 2232. { With Sight Feed and } Finished.....	6.50	7.00	10.50
" " { Oil Gauge Glass } Nickel Plated.....	7.00	8.00	11.50

Imperial Porcelain Roll Rim High Back Sink.

Fig. 2233.



Dimension of Sinks, Inches.....	30 x 20 x 7	36 x 23 x 7	42 x 42 x 7
Sink with Bronzed Iron Legs, Nickel Plated Compression Fancets, Hot and Cold, and Nickel Plated Brass 2 inch Trap with Pipe to Floor.			
Class A.....Price each	78.25	87.50	101.50
“ B.....“	59.75	66.00	73.75
“ C.....“	50.50	55.00	89.75



INDEX



A		PAGE			PAGE
Adjustable Flange Unions.....		31	Basin Cocks, Compression.....		330-345
Air Chambers or Mixers.....		568	" " Double.....		346
" or Pet Cocks, Plain.....		177	" " Bracket.....		346
" " Cross Drain.....		180	" " Fullers' Improved.....		347-354
" " Forked Handle.....		180	" " Double.....		354-358
" " Female both Ends.....		179	" " Bracket.....		359-360
" " Male both Ends.....		178	" " Plug or Swing.....		361-362
" " Male and Female.....		179	" " Bracket.....		360
" " for Rubber Tube.....		180	" " Self Closing.....		363-366
Pressure Gauge for Lager Beer, Etc.....		328	" " Morrison's Patent Compression		
or Blast Pressure Gauge for Cupolas, Etc.....		530	Cushion.....		599-600
Pumps for Lager Beer.....		318	Fittings, The "Hygeia".....		383
Vent.....		324	Floor Slab Waste.....		397
" " "McClellan's".....		580	and Sink Forcer.....		234
Valves, "Automatic, J.M.T.".....		111	Grating.....		394
" " Van Auker.....		110	Legs.....		390
" " Compression.....		112	Plugs.....		394
" " Keys.....		112	Range Fittings.....		397
Ale Cock, "California".....		324	Supply Pipes.....		387
Try Cock.....		324	" Valves.....		387
Angle Valves, Brass, J.M.T.		89	Soap Tray.....		397
" " Standard.....		88	Traps, "Eliptic".....		389
" " " Flanged.....		88	" "Gem".....		388
" " " XX Heavy.....		88	" "Montgomery".....		389
" " Iron Body, J.M.T.		61	" "Morrison".....		389
" " " Jenkin's.....		63	" "Reliance".....		388
" " " Standard.....		65	Wastes, "Unique".....		383-384
" " Gas Stove.....		567	" Morrison's Patent.....		385
Hose Valves.....		104	" The "Brighton".....		385
Safety Valves, Brass.....		107-109	" "Simplex".....		385
" " Iron Body.....		69	" "Nonpariel".....		385
Antimony.....		196	Waste Connection for Common Overflow.....		385
Apron Holders.....		397	Waste and Supply, "Primus".....		386
Argand Burners and Chimneys.....		551	" "Perfecto".....		386
Arms, Window.....		540-544	" Wrenches, "Buzzells".....		228
Asbestos Cement.....		200	Back Pressure Valves, Iron Body.....		73
" Paper, or Builder's Felt.....		199	Ball Cocks, Compression.....		441-3
" Piston or Rope Packing.....		198	Barrelling Cock, 3 Way.....		323
" Sheet or Millboard.....		197	Baths, Porcelain.....		415
" Wick or Valve Packing.....		200	" Lined or Enameled.....		416-421
" Packed Cocks, Brass.....		78	" Steel Clad.....		422-423
" " Iron Body.....		58	" Wood, Iron Bound.....		424
Ashton Pop Safety Valves.....		71	" Wood, Copper or Zinc Lined.....		424
Atomizers or Oil Burners.....		568	Bath Fittings for Porcelain and Porcelain		
Automatic Boiler Oil Injector.....		142	Lined Bath.....		410
Cylinder Lubricators.....		189-142	Waste and Supply.....		410
" Cylinder Lubricators, "Empress" }.....		607	" Overflow.....		410
" " "J.M.T." }.....		143	Sections of Baths with measurements.....		410½
Oil Pumps.....		167	Combination Bath Plates.....		411
Automatic Water Gauge Valve.....		519	Feet for Porcelain Baths.....		411
Axe Handle Clip, "Fire Dept.".....		519	Traps.....		410
" Holder.....		519	Bath Fittings for Steel Clad Baths.....		412
B			Combined waste and Overflow.....		412
Basins, Earthenware.....		570-571	" Supply.....		412
Basin, The Brighton.....		382	Supply Pipes, and Overflow.....		410-412
" Hygeia.....		383	Bath Fittings for Copper Lined Baths.....		413
" for Yachts, Etc.....		532	Strainers for Overflow.....		413
Apron Holders.....		397	Wastes and Washers.....		413
Brackets.....		391-393	Plugs with Brass and Rubber Plugs.....		414
Chains.....		396	Valves, Bath.....		414
Clamps.....		396	" Safe Waste.....		414
			Chains.....		414

	PAGE		PAGE
Chipping Knives.....	229	Compression Bath Cocks.....	400-402
Chock for Yachts.....	533	" Bibb.....	238-253
Cistern Pumps.....	582	" Gauge.....	167-168
Cigar Lighter.....	557	" Grease Cups.....	148-149
Clamps, Hydrant, Malleable Iron.....	18	" Hopper Cocks.....	435
" Hose.....	514	" Stop.....	272-276
Cleats for Yachts.....	532	" Stop & Waste Cocks.....	277
Clocks, Engineers' and Marine.....	124	" Sink.....	484
Closets, The Victor Washdown.....	459	" Water Gauges.....	161-163
" " Primo Imported.....	575	Condensor Heads for Exhaust Pipes.....	55
" " Domestic.....	576	Copper Balls.....	443
" " Diamond Syphon.....	576	" Boilers.....	505
" " Inodoro Washout.....	575	" Soldering Bolts.....	228
" " Clawfoot.....	576	" Coils.....	535
" " Richelieu.....	577	" Showers.....	432
" " Stork.....	577	" Ingot.....	196
" " Star.....	577	" Pipe, Iron Pipe Size.....	192
" " Gem.....	577	" Rod.....	194
" " Titan Washdown.....	575	" Tube, Seamless Drawn.....	192
" " Roman Washout.....	575	" " Weight of.....	194
" " Perfect.....	576	" Sheet, Braziers.....	195
" " Self Acting Frost Proof.....	459	Corner Radiator Valves.....	94-95
" " For Yachts.....	532	Corking Machines, Hand.....	329
Closet Ranges for Schools and Factories.....	460-461	Corporation Service Brass Work.....	306-315
" Fittings, Floor Flanges.....	438	Cotton Hose.....	202
" " Inlet Connections.....	439	" Waste.....	200
" " Vent Connections.....	440	" Wick Packing.....	200
" Seats.....	462	Counters, Revolution.....	124
" Seat Fittings, Backs Brass.....	455	Counter Cocks.....	319
" " Brackets Automatic.....	455	" Pulls and Pumps.....	317-318
" " Hinges Brass.....	456	Couplings, Brass for Iron Pipe.....	189
" Stall Fittings, Legs.....	457-458	" Cast Iron.....	30
" " Clamps.....	457-458	" Malleable Iron.....	16
" Fittings, Floor Clamps.....	457	" Wrought Iron.....	32
" " Paper Holder.....	455	" Pump Rod, Malleable.....	18
" Valves.....	438	" for Range Boilers.....	509
" Repair Union.....	455	" Hose.....	513
Cluster Headers.....	38	" Fire Hose.....	521
Cocks, Air or Pet.....	173-180	" Gas.....	556
" Basin.....	330-367	" Lead and Copper Tube.....	524
" Double Bath.....	400-409	" Water Back.....	510
" Brewers'.....	320-328	Covering Tube.....	555
" Counter.....	319	Covered Mohair Tubing.....	556
" Compression Stop.....	272-276	Creamery Bibbs.....	529
" " Stop and Waste.....	277	" Strainer.....	529
" Cylinder.....	174-176	Crosses, Brass.....	188
" Steam Gauge.....	123	" Cast Iron.....	22
" Water Gauge.....	167-171	" " Flanged.....	25
" Gas.....	558-567	" " long.....	27
" Gas Stove.....	567	" Malleable Iron.....	13
" Hopper.....	435-437	Cross Valves, Brass.....	103
" Hydrant.....	297-298	" " Iron Body.....	66
" Indicator.....	127	" Safety Valves, Brass.....	107-109
" Iron and Iron with Brass Plugs.....	56	Cups, Drinking.....	531
" 3 Way Iron and Iron with Brass Plugs.....	56	" Burner.....	555
" Iron, Extra Heavy.....	57	Cutting Pliers.....	231
" " Asbestos Packed.....	58	Cylinder Cocks, Bent Nose.....	176
" Pantry.....	370-378	" " Cross Drain.....	174
" Rain and Well Water.....	296	" " Straight, M. and F.....	174
" Shampooing.....	367-369	" " Male.....	174-175
" Steam Stop Cock.....	75-78	" " with Coupling.....	174-175
" Stop and Stop and Wastes, Finished.....	279-282	" Lubricators, Common.....	144
" " Rough.....	283-287	" Sight Feed.....	139
" " Rd. Way.....	288-294	" The Detroit.....	140
" " Stop and Waste, Farnan's.....	295	" " Double Sight Feed.....	142
" Sink.....	434-435	" " Siebert.....	139
" Urinal.....	465-468	" " Simplex.....	141
" Urn.....	327	" " Toronto.....	141
" Water Works.....	304-311	" " Empress.....	607
Cock and Check Valve Combined.....	82	" " J. M. T.....	607
Cock Wrenches, Malleable Iron.....	18	Oil Pumps, Automatic Ratchet.....	143
Coil Slats, Cast Iron.....	41	" " Vulcan.....	143
" " Stands.....	41	" " Hand, Collignan's.....	145
Compasses, Plumbers'.....	228	" " Case's.....	145
Compression Air Valves.....	112	" " Felthousen's.....	146
" Basin Cocks.....	330-346	" " Sherwood's.....	147
" Ball.....	441-443	" " Square Body.....	147

D	PAGE	F	PAGE
Damper Regulators, Low Pressure	54	Factory Closet Ranges	460-461
" McDonough's Electric	173	" Gas Cocks	564
Dangler Furnace, Plumbers'	236	" " Joints	564-565
Dairy Fittings	529	Farnan's Patent Stop and Waste Cocks	295
Daisy Lawn Sprinkler	518	Faucets, Lager Beer	320
Dare Heater and Holder	551	Feet, Porcelain Baths	411
Deck Plates	185	Files, Plumbers'	228
" Screws	524	Fire Dept. Fittings, Axe Handle Clips	519
Demarest's Kitchen Sinks	494	" " Axe Handle Holder	519
Diamond Closet, Syphon Jet	576	" " Controlling Nozzle	520
Dies, Right or Left	204	" " Couplings, Hose	521
Die Frame	204	" " Grinnel Sprinkler Heads	521
Die Plate, "The Miller" Ratchet	204	" " Play Pipes, Brass & Rubber	520
Double Compression Basin Cocks	346	" " " Pipe Clip	519
" " Bath	400-402	" " " Post	516
" " Pantry	372	" " Ring Expander	521
" " Shampooing Cocks	367	" " Shut Off Valves	520
" Fullers' Improved Basin Cocks	354-358	" " Sliding Pole, Fire Hall	519
" " Bath	403-409	" " Suction Basket	521
" " Pantry	376-377	" " Waggon Rail	519
" " Shampooing Cocks	368	" " Y Connections	520
" " Sink	485	Filters, Water, The "Conrader"	523
Draft Tube, Lager Beer	328	" " " "Reversible"	523
Dressers, Plumbers	229	" " " "Superlative"	522
Drift Plugs	230	Fittings, Bath Rooms	433-434
Drinking Fountains	586	" " Brass, for Iron Pipe	188-190
" Cups	581	" " " Railing	191
Drop Elbows, Brass	188	" " Cast Iron	20-30
" " Malleable Iron	14	" " Malleable Iron	8-18
" Tees, Brass	188	" " " for Railings	19
" " Malleable Iron	15	" " for Baths	411-413
" Light Socket	550	" " Closets	438-457
Dry Kiln Coils	47	" " Flush and Supply Pipes	448-450
Duncan Self Regulating Burner	548	" " Urinals	469-473
Dynamo, Electric Gas Lighter	552	Flange Unions, Brass	190
Dynamo Fittings	187	" " Cast Iron	31
		" " Patent Adjustable	31
		Flanges, Brass, Steam	36
		" " Window Fittings	542
		" " Cast Iron, Blind	28
		" " " For Flanged Fittings	28
		" " " Plain	36
		" " " Saddle	36
		Flax Packing, Square Braided	198
		Floor Clamps, Closet	457
		" " Flanges	438
		" " Plates, Cast Iron and Spun Brass	44
		" " Slab Waste	397
		Flue Cleaners	224
		Flush Pipe Fittings	448-450
		" " Pipes, Brass	447
		" " Tank Boards	464
		" " " Brackets	452-454
		" " " Couplings	471
		" " " Chains	452
		" " " Handles	451
		" " " Levers	446
		" " " Pulls	451-452
		" " " Seat Attachments	452
		" " " Valves	444-445
		Flushing Tanks, Automatic Closet, Morrisons'	461
		" " " Urinal, Demarest's	475
		" " " " Morrisons'	474
		" " " Syphon, Closet	463-464
		" " " Ready Supply	463-464
		Folding Urinals Porcelain	475
		Foot Valves, Iron	74
		Force Cups, Rubber	234
		" " Pump, Plumbers'	232
		" " Pump, House, Iron	588-585
		Forcer, Basin and Sink, Rubber	234
		Forge, Electrical, The Diamond	236
		Frost Proof Closet, Self Acting	459
		Fullers' Bibb Trimmings	525
		" " " Washers	525
		" " Bibbs, Bath	261-264

E

Eastlake Sinks, Cast Iron	495
Ejector, or Steam Jet Pumps	135
" The Hancock	135
" " Gem	135
Elbow Nozzles, Gas	563
" Cock and Air Chamber	568
Elbows for Flush Pipe	448
" " Brass	188
" " Cast Iron	20
" " " for Water	44
" " Malleable Iron	9-10
" " Drop	14
" " Union	32
" " Flanged, Cast Iron	23
Electric Damper Regulator	173
" Car Fittings	537-539
" Gas Lighter	552
Electrical Forge, The Diamond	236
Elliptic Trap for Basins	389
End Nozzles, Gas	563
Engine Hand Rails	186
" Room Sets	125
" Oilers	159
Engineers' Clocks	124
Excelsior Lawn Sprinkler	518
Expansion Joints, Brass	110
" " Cast Iron	74
" " Tanks	166
" " Tank Mountings	166
" " Plates, Cast Iron	42
" " Ring Hangers	43
Extra Heavy Gas Joints	564-565
Extension Pieces, Malleable Iron	16
Expanders, Tube, Dudgeons	221
" " Jardines	221
Expanders, Ring, for Hose Coupling	521
Eye Bolt and Cleat, Combined	532

	PAGE		PAGE
Fuller's Bibbs, Hose.....	257-258	Gas, Middle Swings, Wing Back.....	564
" " Plain.....	254-256	" Monitor Heater, Burner.....	551
" " Wash Tray.....	259-260	" " Stands.....	551
" Basin Cocks.....	347-352	" Pendant Cocks.....	558
" " Bracket.....	359-360	" " Factory.....	564
" " Double.....	354-358	" " Bodies.....	563
" " Half Low Down.....	354	" Pillar Cocks.....	559
" " Low Down.....	353	" Pipe, Wrot Iron.....	5
" Bath Cocks, Double.....	403-409	" " Hooks, Wrot Iron.....	35
" Pantry Cocks.....	374-375	" " Straps, Malleable Iron.....	17
" " Double.....	376-377	" " W. I., Tinned.....	86
" Shampooing Cock, Bracket.....	369	" Plates.....	569
" " Double.....	368	" " and Keys.....	599
" Slop Sink Cocks, Double.....	485	" Pliers.....	101
" Stop Cocks.....	276	" " Burner.....	101
" Urinal Cocks.....	465	" Pressure Gauge.....	552
Furnaces, Plumbers', The "Dangler".....	286	" Revolving Pendant Cocks.....	558
" " " " Favorite".....	286	" " Factory.....	564
" " " " Helper".....	286	" Self Lighting Burners.....	548
Fusible Plugs.....	55	" Service Cocks.....	559
		" Shade Holders.....	554
		" Side Nozzles.....	563
		" Smoke Bells.....	554
		" " Shades.....	553
		" Sockets, Drop Light.....	550
		" Spun Checks, or Seating Rings.....	555
		" Stiff Joints.....	563
		" Stove Cocks.....	567-568
		" Straight Cocks.....	560
		" Street Lamp Cocks.....	561
		" Taper Slide and Key.....	557
		" Tips, Burner.....	546
		" " Rubber Tube.....	566
		" Top Swing Joints.....	562
		" " Factory.....	565
		" Tube, Covering Brass.....	555
		" " Covered or Mohair.....	556
		" " Rubber.....	201
		" Two Light Bracket Body.....	563
		" " Pendant Cock.....	558
		" Universal Brackets.....	546
		" " Cock.....	561
		" " Swing Joint.....	562
		" " Factory.....	565
		" Valves.....	567
		" Wax Tapers.....	556
		Gasoline Torch, The Diamond.....	285
		Gate Valves, Brass, J.M.T.....	101
		" " Peet.....	102
		" " Webber.....	103
		" " Iron Body, Chapman.....	59
		" " Webber.....	59
		Gauge Cocks, Compression, Iron Wheel.....	167
		" " Wood Wheel.....	168
		" " Duplex with Weight.....	169
		" " Lever Handle, Common.....	170-171
		" " Marine.....	169
		" " Regesters' Patent.....	169
		" " With Chain Attachment.....	169
		Gauge Glasses.....	160
		" Glass Cutter.....	220
		" Hand Lifter.....	220
		Gem Basin Trap.....	388
		" Hose Nozzles.....	512
		" Soap Tray.....	434
		" Spraying Nozzle.....	515
		German Silver, Sheet.....	195
		Globe Valves, Brass, Hose.....	104
		" " J. M. T.....	84
		" " Brass & Wood Wheel.....	87
		" " Standard.....	83
		" " Brass & Wood Wheel.....	86
		" " Lock Shield, J.M.T.....	85
		" " Standard.....	85
		" " Male and Female.....	85
		" " Sliding Stem and Lever.....	85
Galvanized Range Boilers.....	506-508		
Garden Syringe.....	515		
Gas, Air Mixers, Natural Gas.....	568		
" " Stove.....	568		
" Argand Burners.....	551		
" Argand Chimneys.....	551		
" Box Plates.....	555		
" Brackets.....	546-547		
" " Backs.....	555		
" Burners.....	548-549		
" " Cleaners.....	557		
" " Cups.....	555		
" " Tips.....	548		
" Canopies, Mica.....	553		
" Ceiling Hooks.....	556		
" " Plates.....	555		
" Chandelier Hooks, Brass.....	556		
" " Malleable Iron.....	17		
" Cigar Lighters.....	557		
" Cocks.....	558-561		
" " Factory.....	564		
" " Stove.....	567		
" " with Lever for Chain.....	566		
" Couplings.....	556		
" Dare Heaters.....	551		
" Drop Light Sockets.....	550		
" Elbow Cocks for Gas Stoves.....	568		
" Electric Gas Lighter.....	552		
" End Nozzles.....	563		
" Extension Shade Holders.....	554		
" Fitters' Cement.....	557		
" " Test Pump and Gauge.....	232		
" " Torches.....	235		
" Globe Holders, Ring.....	554		
" " Spring Wire.....	554		
" Goose Necks.....	556		
" Hose Tips for Rubber Tube.....	566		
" Independant Cocks.....	560		
" Instantaneous Water Heater.....	569		
" Jewellers' Blow Pipe.....	550		
" " Burners.....	550		
" Joints.....	562-563		
" " Factory.....	564-565		
" Keys, Lighting.....	557		
" " with Taper Slides.....	557		
" " and Plate.....	569		
" L. Burner Cocks.....	559		
" L. Pendant.....	558		
" Logs.....	552		
" Mica Canopies.....	553		
" " Smoke Shades.....	553		
" Middle Swings.....	562		
" " Factory.....	565		

PAGE

PAGE

Globe Valves, Iron Body, J.M.T.	60
" " Jenkins'	62
" " Standard	64
Gong Bells, Fire Engine	182
" Steam Boat	181
" Bell Cranks	182-183
" Pulls	184
Goose Necks, Gas	550
" Water Connections	315
Graphite, Perfect Lubricator	200
" Pipe Joint, Grease	200
Gratings, Basin	394
" Kitchen Sink	488
" Slop Sink	487
" Stevens' Urinals	528
" Urinal Stall	473
Grease Boxes, Plumbers'	230
" Cups, Besley's Patent	149
" Compression, Brass	148
" " C.I.	149
" Cup Swivels	149
" Traps, for Sinks	486
Gresham Injectors	134

H

Hair Felt	199
Hall Light Cocks	561
" Tapping Machine	237
Half Low Down Basin Cocks, Compression	344-345
" " " Fullers	354
" " " Pat. Cushioned	600
Hammers, Plumbers	228
Hand Corking Machines	329
" and Foot Rails for Saloons	329
" Rails for Stairs or Shop Fronts	545
" " for Engine Rooms, etc	19-186
" " Brackets	545
Hancock Inspirators	131
" Parts of	132
" Ejectors	135
Handles for Tank Pulls	451
Handle Fitting for Tank Pulls	536
Headers or Branch Tees	37-40
Helper Furnace	236
Heating Coils for Tanneries, etc	48
Heaters, Improved Dare	551
" Monitor	551
" Instantaneous Water	569
Hexagon Nuts	536
Hinges, Brass Closet Seat	456
Holders, Sponge	434
" Toilet Paper	455
" Tumbler	398
" Apron	397
" Globe and Shade	554
Hook Plates	42
Hooks, Shave	229
" Chandelier, Brass	556
" " Malleable Iron	17
" Ceiling, Brass	556
" S, for Tank Pulls	451
Hopper Cocks, Compression	435
" Self Closing	436
" Kelly Pattern	437
" Mueller	437
" Valves, Old Pattern	437
" Pull	438
Hoppers, Morrison's Washout	578
" Long Oval Flushing Rim	578
" Philadelphia	578
" Oval Flushing Rim, Plain	578
" " with Wood Rim	578
Horse Drinking Fountains	586
Hose, Rubber	201
" Cotton	202
" Linen	202

Hose Racks, Swinging	202
" Valves, Globe and Angle	104
" " Gate, J.M.T., and Peet	105
" Bibbs, Compression	244-248
" " Fullers	257-258
" Bibb Ends	514
" Branches, Plain	511
" " with Stop Cock	512
" " "Magic"	512
" Nozzles to Tie on	511
" " to Screw on	511
" " The Gem	512
" Couplings	513
" " Expanding Ring	521
" " Washers	525
" Caps	513
" Clamps	514
" Menders, or Splice	515
" Nipples	513
" Pliers for Caldwell Straps	515
" Reducers	513
" Patches	514
" Sprinklers	514
" Straps, Caldwell's	514
" Reels and Sprinklers Combined	519
" " The Wonder	519
" Tips, for Gas	566
Hot Water Boilers, Bigley's Patent	51
Hot Water Boilers, Daisy	50
" " Diamond	51
" " Eclipse	49
" " Otton	50
" " Oxford	49
" " Little Wonder	226½
House Force Pumps	583
Hydraulic Gauges	119
" Screw Press	129
" Pumps	130
" Rams	582
Hydrant Cocks, Compression	298
" Plug	297
" Clamp, Brass	299
" " Malleable Iron	18
" Handle and Guide	300
" Handle, Malleable Iron	300
" Nozzles	299
" Sockets, Brass	299
" Washers	525
Hydrants, Casler's Patent Self Closing	302
" Improved Two Pipe	301
" McNamara	301
" Single Pipe	301
" Smith's Patent	301
" Street, Ludlow Pattern	303
" Toronto	303
Hygeia Wash Basins	383
" Basin Fittings	383
" Flushing Rim Slop Sink	496

I

Independant Cocks, Gas	560
Indicators, Steam Engine	127
Indicator Cocks	127
Inlets, for Closets, Brass	439
" " Rubber	439-440
" " Urinals, Brass	469
" " Stevens' Urinals, Brass	470
Injectors, Gresham	134
Inspirators, Hancock	131
" Parts of	132-133
Iron Body Valves, Angle, J.M.T.	60
" " Jenkins	63
" " Standard	65
" " Check, J.M.T. Cushioned	66
" " Swinging	67

	PAGE		PAGE
Iron Body Valves, Check, McShane ..	67	Lawn Sprinklers, Champion	517
" " " Pratt & Cady ..	67	" " Daisy	518
" " " Standard	67	" " Excelsior	518
" " Cross	66	" " Limpet	518
" " Globe, J.M.T.	60	" " Novelty	518
" " Jenkins	62	" " Revolving Head, 4 Arm.	518
" " " Standard	64	" " " " 8 "	518
" " Reducing Pressure, Steam..	72	" " Waterwitch	517
" " " Water	313	" " Wilgus	516
" " Safety, Angle	69	Lateral Branch Y's, Cast Iron	90
" " " Cross	69	Leach Sprinklers, Tannery	48
" " " Marine Single	70	Lead Moulds	235
" " " Twin	70	Lead, Pig	196
" " " Ashton	71	" " Pipe	579
" " Straightway Chapman	59	" " Sheet	579
" " " Webber	59	" " Traps and Bends	580
" " Throttle	73	" " Tacks, Plumbers'	580
Iron Cocks, and Iron with Brass Plugs	56	" " Waste Pipe	579
" " Asbestos Packed	58	Legs, Lavatory or Basin	390
" " Extra Heavy	57	" " Closet Stall	457-458
" " Three Way and with Brass Plugs	56	" " Sink, Brass	485
" " Three Way, Extra Heavy	57	" " Cast Iron	490
" Bound Bath	424	" " Urinal Stall	457-458
" Pipe, Wrought Iron, Standard	5	" " Wash Tub	488
" " " Extra Heavy	6	Letters, for Granolithic Pavements	534
" " Steam Coils	585	Levers, Flushing Tank	446
Instantaneous Water Heater	569	Lever Handle Bibbs	268-271
Insulation Joints	566	" " Stops and Stop and Wastes	279-295
J		Lighters, Gas, Electric	552
J.M.T., Automatic Air Valves	111	" " Cigar	557
" " Cylinder Lubricators	607	Linen Hose	202
" " Spraying Nozzles For Fruit Trees	515	Lip Unions, Brass	189
" " Iron Body, Angle Valves	61	" " Malleable Iron	31
" " " Cushioned Check Valves	67	Lipped Urinals, Flat Back	573
" " " Swinging	68	" " Corner	574
" " " Globe Valves	60	Lock Cocks	321
" " Brass Angle Valves	89	Lock Nuts, Brass	189
" " " Cushioned Check Valves	80	" " Cast Iron	30
" " " Swinging	80	" " Malleable Iron	17
" " " Gate Valves	101	Lock Shield Valves, Radiator	96-97
" " " Globe Valves, Iron Wheels	84	" " Natural Gas	96
" " " " Wood & Brass W.	87	Logs, Gas	552
" " " Radiator Valves	92-93	Long Brass Screws	536
" " " " Corner	95	Low Pressure Damper Regulator	54
" " " " Lock Shield	97	" " Safety Valves	109
" " " " Straightway	99	" " Water Feeder	54
Jewelers Blow Pipe	550	Low Water Alarms	173
" " Burners	550	Lubricators, The Empress	607
Johnston Force Pump	530	" " Detroit	140
K		" " " J.M.T. Single Con.	607
Keys, Gas	557	" " Siebert	139
" " Gas and Taper Slides	557	" " Simplex	141
" " For Valves	111	" " Toronto	141
Kink Proof Rubber Hose	201	" " Double Sight Feed	142
Kitchen Sinks, Demarests Cast Iron	494	" " Vulcan	143
" " Eastlake	495	" " Cylinder, Common	144
" " Imperial Porcelain	492-493	Ludlow Hydrants, Street	303
" " Yorkshire Brown	492-493	" " Water Gates, Street Mains	313
Knobs, Brass	536	Lumber Register	180
L		M	
L. Burner Cocks	559	Magee's Patent Sinks, C. Iron	501
Ladder Bracket	544	Machine Screws, Brass	536
" " Hook	544	Magic Hose Branches	512
Ladles, Plumbers'	228	Main Cocks, Corporation	308-311
Lager Beer, Air Pressure Gauge	328	" " Proving Pump	232
" " Block Tin Pipe	328	" " Tapping Machine, " Hall "	237
" " Cocks	328	" " " " Mueller "	237
" " Draft Tube	328	" " " " Payne "	237
" " Faucets	328	Malleable Iron Fittings	7-19
Lambert Ball Cocks	442	" " Nipples, Right and Left	35
Lavatories, Open, with Legs	379	Marble Slabs, Corner	571
" " " Brackets	380-381	" " Oblong	572
		Marking Roller, Granolithic Pavements	531
		McNamara Hydrants	301

PAGE

Menders, Hose	515
Meter Cocks, Union	561
Mica Canopies	553
" Smoke Shades	553
Middle Swings, Gas	562
" " " Factory	564
" " " Wing Back	564
Mineral Wool, in Bulk	199
" Pipe Covering	199
Morrison's Basin Traps	385
" Wastes	385
" Urinal Traps	471
Monkey Wrenches	231
Monitor Heater Burners	551
" Stands	551
Montgomery Basin Traps	389
" Sink	486
Moulds, Solder	235
" Tack, Plumbers	231
Mueller Hopper Valve	436
" Tapping Machine	237

N

Name Plates	534
" Ship Cabin	186
Needle Showers, Combination	425-428
Nipples, Brass	189
" Malleable Iron, Right and Left	35
" Soldering	524
" Wrought Iron, Black	34
" " " Right or Left	35
" " " Galvanized	35
Nonparel Basin Wastes	385
Novelty Lawn Sprinklers	518
Nozzles, Elbow Gas	563
" End Gas	563
" Hose the " Gem "	512
" " to Screw on	511
" " Tie on	511
" Probang for Veterinary Purposes	530
" Side or Elbow, Gas	563
" Spraying Trees, the Clarksburg	515
" " " Gem	515
" " " J.M.T.	515
" " " Vermorel	515
" Hydrant	299
Nuts, Brass, Hexagon	536
" " Square	536

O

Offsetts, Cast Iron Soil Pipe	592
" Steam Pipe	30
" Flush Pipe, Brass	448
Oil Burners	568
" Cups, Bang's Patent	153
" " Crank Pin	154
" " Elbow Plain	157
" " Engine, Brass Shell	155
" " Glass	155
" " with Guards	155
" " Jones' Patent	156
" " New Pattern	156
" " Plain	156
" " Regulating Screw Feed	154
" " Slide Top, The " Gem "	154
" " Stop Cock	156
" " Shafting, Brass Bottom	157
" " Wood Plug	158
" Drips, Marine	152
" Filter	225
" Gauges, Dynamo	152
" Injectors, Automatic	142
" Pumps, Automatic	143
" " Cylinder, Hand	145-147
" Hose, Rubber	201

PAGE

Oilers, Steel	159
" Sets, Engineers	159
" Steamboats	159
Oiling Devices	150-151
Oily Waste Can	225
Opal Smoke Bells	553
" " Shades	553
Open Lavatories with Brackets	380-381
" " Legs	379
Ornamental Wall Brackets	41
Oval Pantry Sinks, Copper	502
" Wash Basins	571
Overflow, Bends, for Steel Clad Baths	412
" Combination Waste and	410
" Pipes	412
" Sinks	409

P

Packing Piston, Asbestos, Rope	198
" " Flax, Square Bevelled	198
" " Garlock	198
" " Hemp Rope	198
" " Soapstone Rope	198
" Sheet, Asbestos	197
" " Rubber, Plain	197
" " " Plumbago	197
" " " Rainbow	197
" Wick, Asbestos	200
" " Cotton	200
Pantry Cocks, Compression	370-371
" " Double	372
" " Fuller's Improved	374-375
" " " Double	376-377
" " Lever Handle	373
" " Self Closing	378
" Sinks, Copper, Oval	502
" Imperial Porcelain	499
Patches, Hose, Cast Brass	574
Pavement, Brass Letters	534
" Marking Roller	531
" Stamp	531
Payne Tapping Machine	237
Peet Valves, Brass	100-102
" Hose	105
Pendant Bodies, Brass and Iron, Gas	563
" Cocks, L. Stiff	558
" " Revolving	558
" " Factory	564
" " Two Light	558
Pet Cocks, Cross Drain	180
" Female both Ends	179
" Forked Handle	180
" Male and Female	179
" Male both Ends	178
" Plain T and L Handle	177
" Rubber Tube	180
Pig Lead	196
" Tin	196
Pillar Cocks, Gas	559
Pillars, Urinal Stall Fittings	472
Pins, Bending	230
Pipe, Lead	579
" Wrought Iron, Standard	5
" " X and XX Heavy	6
Pipe Bends, W. Iron	35
" Cutters, Wheel	215-216
" Drills	220
" Holders, Lead Pipe	234
" Hooks, W. Iron	35
" Reamers	220
" Screwing Machines	209-211
" " Stocks and Dies	203-208
" Straps, Mal. Iron	17
" " W. I. Tinned	36
" Taps, Right and Left Hand	220

	PAGE		PAGE
Pipe Tongs	216-217	Pumps, Air, for Lager Beer	318
" Vises	212-213	" Beer	316-317
" Wrenches	218-219	" Improved	606
Piston Packing, Asbestos	198	" Cistern, Cast Iron	582
" Flax, Square	198	" Gas Fitters' Test	232
" Garlock	198	" Force, House, C. I.	583-585
" Hemp	198	" Johnston's	580
" Soapstone	198	" Plumbers'	232
Plates, Bath	411	" Oil, Automatic	143
" Box, Gas	555	" Hand Cylinder	145-147
" Ceiling, Gas	555	" Hydraulic, Testing Steam Gauges	130
" Steam Pipe	43	" Test, Improved, for Air or Water	580
" Expansion	42	" Proving, for Street Mains	232
" Floor	44	" Veterinary	531
" Gas	549	Pump Cylinders	581
" Hook, Steam Pipe	42	" Handles, for Beer Pumps	318
" Name	534	" Rod Couplings, Mal. Iron	18
" Ring, Steam Pipe	42	Pyrometers for Bakers' Ovens	126
" Rosette	43		
Pliers, Burner, Gas	231	Q	
" Combination, Pease's	219	Quick Opening Radiator Valves	98
" Cutting	231		
" Gas	231	R	
" Hose Straps	515	Racking Cocks	322-323
Plugs, Basin	394	" Valves and Faucet	606
" Baths	414	Radiators, Steam and Hot Water, The Oxford	46
" Steel Clad	412	" Safford	45
" Brass, for Steam	189	Radiator Valves, J.M.T.	92
" Iron, Plain	30	" with Union	93
" Countersunk	30	" Standard	90
" Fusible	55	" Standard, with Union	91
" Rubber	394	" Corner, J.M.T.	95
" Sink	488	" Standard	94
" Soil Pipe	594	" Lockshield, J.M.T.	97
" Steel Sinks	490	" Standard	96
" Testing, Soil Pipe	233	" Straightway, J.M.T.	99
" Wash Tray	487-488	" Peet	100
" Weigh Can	529	" Quick Opening	98
Plumbers' Dressers, Boxwood	229	Railway Fittings, Brass	191
" Force Pump	232	" Malleable Iron	19
" Furnaces, Dangler	236	" Brackets	545
" Favorite	236	Railings, Iron Pipe and Iron Fittings	19
" Helper	236	" Brass Tube and Brass Fittings	191
" Ladles	228	" Stair, and Shop Front	545
" Pipe Holder, Lead	234	" Counter and Foot	329
" Solder Pots	234	Rain and Well Water Cocks	296
" Torch	235	Range Fittings for Basins	397
Pole Bracket, for Ladder	514	" Boilers, Copper	505
Pop Safety Valves, Ashton	71	" Galvanized Iron	506-507
" Marine	70	" with Steam Coils	508
" Portable Engine	108	" Boiler Couplings	509
" Stationary	108	" Safety Valve	510
Porcelain Baths	415	" Vacuum Valves	510
Porcelain Lined Baths, C. Iron	416-421	Ratchett Drills	223
" Wash Tubs	504	Rasps, Plumbers'	228
" High Back Sink	608	Reducing Couplings, Brass, for Iron Pipe	189
" Sinks, Kitchen	491-499	" Cast Iron	30
" Slop Sinks	496-500	" Mal. Iron	16
Pressure Gauges, Air, for Lager Beer	328	Reducers, Hose	513
" Blast, for Cupola	530	Reducing Pressure Valves, for Water	313
" Gas	532	" The Foster	72
" Hydraulic	119	" Fisher	72
" Recording	122	" Watson	72
" Steam and Water	113-121	" McDaniel's	225
Pressure Reducing Valves, The Foster	72	Reflectors, Red, for Gauge Glasses	160
" Fisher	72	Relief Valves, Brass, for Cylinders	109
" Watson	72	" for Water Mains, "Ashton"	71
" McDaniel's	225	" Standard	72
" for Water	313	Reliance Traps	388
Proving Pumps, for Street Mains	232	Repair Unions for Closets	455
Pull Handles, Counter Beer Pull	318	Return Bends, Brass, Open and Close	190
" Flushing Tank	451	" Cast Iron	29
Pulls, Flushing Tanks	451-452	" Back and Side Outlet	29
" Gong Bells	184	" Mal. Iron	17
" Hopper	438		
Pulleys, Ship Telegraph	183		

	PAGE		PAGE
Sinks, White Porcelain Pantry Sinks.....	499	Steam Traps, The McDaniel's	225
" with Legs, Backs, Traps, Etc.....	491-492	" Tube Cleaners.....	224
& Drain Bends	493	Steam Whistles, without Valves	136
Simplex Basin Waste	385	" " with	136
Sleeve Ratchet.....	223	" " Single Bell Chim	137
Sliding Poles for Fire Halls.....	519	" " Double	138
Slop Sinks, The Hygeia, Porcelain	496	" Whistle Valves.....	109
" " Richmond.....	497	Steam Coils, Copper Pipe.....	535
" " York.....	497	" " Iron Pipe.....	535
" " Colonial, Roll Rim	498	Steel Clad Baths	422-423
" Imperial Porcelain.....	500	Steel Springs, Spiral for Valves.....	535
" Yorkshire Brown.....	500	Stench Trap, Brass.....	528
" Colonial	500	" " Iron.....	586
Smith's Patent Hydrants	301	Stevens' Urinals	574
Smoke Shades, Mica	553	" Urinal Grating	528
" Opal.....	553	" " Fittings.....	470
" Bells	553	Stiff Joints, Gas	563
Snips, Plumbers'	227	Stiff Brackets, Gas.....	547
Soap Tray for Baths	434	Stiff Pendant Cocks, Gas.....	558
Soap Tray, Wash Basin.....	397-606	Stocks and Dies	203-208
Sockets, Drop Light, Gas.....	550	Stops, Compression.....	272-276
Sockets, Hydrant	299	" Fuller's Improved.....	276
Soil Cups.....	230	" Lever Handle, Finished	279-282
Soil Pipe Cutter.....	233	" " Rough	283-287
Soil Pipe, Cast Iron.....	587	" " Roundway.....	288-294
" Lead	579	" " Self Closing	277-278
" Fittings	587-598	Stop and Waste, Compression.....	277
Soldering Nipples	524	" " Lever Handle, Finished	279-282
" Union	524	" " Rough.....	283-287
Solder Pots, Plumbers'	234	" " " Roundway	288-294
Solder Moulds.....	235	" " " Farnan's Patent	295
Speed Indicator.....	126	Stop Cock Boxes	303
Spelter.....	196	Stork Water Closet	577
Sponge Holders	434	Straight Cocks, Gas.....	560
Sprinkler, "Leach," for Tanneries	48	Strainers, Brass, Dairy	529
Sprinklers, Lawn.....	516-518	Strainers for Bath Overflow.....	413
Sprinkler Heads, Grinnel	521	Straps, Malleable Iron.....	17
Spring Wire Globe Holders	554	Street Car Fittings.....	537-538
Springs, Bending, for Lead Pipe.....	234	" Lamp Cock, Gas	561
Spun Checks, or Seating Rings.....	555	" Hydrants, Ludlow Pattern.....	303
Stands, Monitor Heater.....	551	" " Toronto	303
Standards, Foot Rails.....	545	" " Washers	302
Stair and Hand Rails, Brass	545	" " Washer Screws	300
Stays and Straps, Flush Pipes.....	448-450	" " " Guides	300
" " Supply Pipes.....	451	" " " Main Proving Pump	282
Star Water Closet	577	Suction Basket, Hose	521
Steam Cocks, Brass, Standard	75	Superlative Water Filter	522
" " XX Heavy.....	75	Support for Centre of Porcelain Sinks.....	489
" " Three Way.....	76	Supply Pipes, Flushing Tanks	450
" " Male and Female.....	76	" " Basin.....	387
" " Roundway	76	" " Baths	412
" " Marine.....	77	Swing Basin Cocks.....	361-362
" " Asbestos Packed	78	Swivels for Automatic Flush Tanks.....	455
Steam Engine Indicator	127	Syphons for Steam Gauges.....	123
" " Cocks	127	Syphon or Water Lifter.....	225
Steam Gauges, Pressure, Bourdon.....	113	Syphon Flush Tanks.....	463-464
" " Vacuum	113		
" " Morrison's Improved	114		
" " Locomotive.....	116		
" " Test, Standard	118		
" " With Black Dials	115		
" " Comb.. Press and Vacuum.....	117		
" " " Height of Water	120		
" " " Temperature.....	121		
" " Hydraulic.....	119		
Steam Gauge Cocks.....	123		
" " Syphons	123		
" " Hand Lifter	220		
Steam Packing, Sheet Rubber.....	197		
" " Rainbow Sheet.....	197		
" " Plumbago Sheet.....	197		
Steam Traps, The Albany Return.....	52		
" " Pratt and Cady	52		
" " Hawes	53		
" " Kiely	54		
" " Nason	53		

T

Tack Moulds	231
Tacks, Plumbers	530
Tags, Brass	534
Tanks, Expansion.....	166
" " Flushing Closet, Automatic.....	461
" " " Ready Supply.....	463-464
" " " Syphon	463-464
" " " Urinal, Automatic.....	474-475
Tank Boards, Flushing Tank.....	464
" " Brackets	452-454
" " Levers	446
" " Mountings, Brewers and Distillers	166
" " " Expansion Tank	166
" " Pulls, Flushing Tank	451-452
" " " Valves	444-445
Tap Borer.....	229
Taper Blow Pipe	231
" " Slide and Key, Gas.....	557

	PAGE
Tapers, Wax, Gas	556
Tapping Machines, Street Mains, Hall	237
" " " Mueller	237
" " " Payne	237
Telegraph Handle, Self Closing Bibbs	267
Tees, Brass, for Steam	188
" Cast Iron, Screwed	21
" " Flanged	24
" " Long Turn	26
" " Water Connections	44
" Malleable Iron	11-12
" " Drop or Wing	15
" " Four Way	10
" " with Union	32
" McDaniel's Suction	225
" Soil Pipe	589
Testing Plugs, Rubber for Soil Pipe	233
Test Pumps, Gas Filters	232
" Steam Gauge	130
" Improved, Air or Water	530
" Screw Presses, Steam Gauge	129
Thermometers	167 and 226
Thimbles, Brass for Soil Pipe	526
" with Trap Screw	527
Throttle Valves, Brass	106
" Iron Body	73
Tin, Pig or Block Tin	196
" Pipe for Lager Beer	328
Tinned Pipe Straps, Wrought Iron	36
Tips, Burner, Gas	548
" Hose	536
" Rubber Tube, Gas	566
Toilet Paper Holders	455
Tool Bags	231
Top Swings, Gas	562
" Factory	565
Torches, Gas Fitters and Plumbers	235
" Gasoline, the Diamond	235
Towel Racks	433
Traps, Brass, Basin Gem	388
" " " Elliptic	389
" " " Montgomery	389
" " " Morrison	389
" " " Reliance	388
" Bath	410
" Brass, Sink	486
" " Grease Traps	486
" Urinal	471
" Cast Iron Soil Pipe	596-598
" " Hawe's Improved	53
" " Steam, Albany Return	52
" " Pratt & Cady	52
" " Kiely	54
" " McDaniel's	225
" " Nason	53
" Lead, Dubois	580
" Sanitas	580
Trap Door, Brass	528
" Standard, Cast Iron	487
" Screw	524
Trimnings for Fuller Bibbs	525
Try Cocks, Ale and Lager Beer	324
Tube, Brass, Bronzed	193
" " Covering, Gas	555
" " Iron Pipe Size	192
" " Seamless Drawn	192
" " Copper Iron Pipe Size	192
" " Seamless Drawn	192
" " and Brass, Weights of	193
" Rubber	201
" Expanders, Boilers	221
Tumbler Holders	398
Turn Pins, Plumbers	230
Two Light, Bracket Body	563
" Pendant Cock	558

	PAGE
Unions, Closet Repair	455
" Lip, Brass	189
" " Malleable Iron	31
" Flange, Brass	190
" " Cast Iron	31
" " Adjustable	31
" " Soldering	524
Union Meter Cocks, Gas	561
Unique Wastes, Basin	388-384
" Baths	410
Universal Swing Brackets, Gas	547
" Bracket Cocks	560
" Joints	562
" " Factory	565
Urinal Cocks, Compression	465-467
" Fullers, Improved	465
" " Self Closing	467-468
" Gratings for Steven's Urinals	528
" " Urinal Stalls	473
" Flush Tanks, Automatic	474-475
" Inlets	469
" Outlets	470
" Shields	471
" Stall Fittings	472-473
" Stalls	476-479
" " Public Places	480-482
" Traps	471
" Troughs, Cast Iron	483
Urinals, Earthenware, Flat Back	573
" " Corner	573-574
" " Folding	475
" " Stevens'	574
" Enameled Cast Iron Corner	483
" " Flat Back	483
Urns, Coffee, Tea or Water	327
Urn Cocks	327
" Gauges	327

V

Valve Box, for Street Mains	302
Valves, Air, Automatic, J.M.T.	111
" " Van Auker	110
" " Compression	112
" Angle, Brass, J.M.T.	111
" " Standard	88
" " X X Heavy	88
" Iron Body J.M.T.	61
" " Jenkins	63
" " Standard	65
" Back Pressure, Iron Body	73
" Basin Supply Pipes	387
" Bath	414
" Check, Brass, Ball Valve	81
" " J.M.T., Cushioned	80
" " " Swinging	80
" " " Jenkins	81
" " " Male and Female	79
" " " McShane, Swinging	80
" " " Pump	81
" " " Standard	78
" " " Flanged	78
" " " X X Heavy	79
" " " " Flanged	79
" " Iron Body, J.M.T., Cushioned	67
" " " Swinging	68
" " " McShane	68
" " " Pratt & Cady	68
" " " Standard	67
" Combined Cock and Check Valve	82
" " Globe	82
" Corner Brass, J.M.T.	95
" " Standard	94
" Cross Brass	103
" " Iron Body	66
" Closet	438

	PAGE		PAGE
Valves, Gas Stove, Angle	567	Washer Cutter	229
" " " Globe	567	Washers, Rubber, Basin	525
" " " Stop	567	" " Comp. Bibb	525
" Gate, Brass, J.M.T.	101	" " Fuller	525
" " " Peet	102	" " Hose Coupling	525
" " " Webber	103	" " Sink	525
" " Iron Body, Chapman ..	59	" " Tank Valve	525
" " " Webber	59	" " Gauge Glass	160
" Globe, Brass, J.M.T.	84	" Street	302
" " " Lock Shield	85	Wash Basins, Brighton	382
" " " Standard	83	" " Earthenware, Round ..	570
" " " Lock Shield	85	" " " Oval	571
" " " X X Heavy	83	" " Hygeia	383
" " " J.M.T., Brass & Wood W.	87	" " Enameled Iron	399
" " " Standard	86	" " " on Stand	399
" " " Sliding, Stem and Lever ..	85	" Tray Bibbs, Compression ..	249-250
" " Iron Body, J.M.T.	60	" " Fuller's	259-260
" " " Jenkins	62	" Tubs, Sets of	503
" " " Standard	64	" " Colonial	504
" Hopper, Mueller	437	" " Imperial Porcelain	504
" " Old Pattern	437	" " Laurentian Cement	504
" Hose, Brass, Angle	104	" " Slate	504
" " " Globe	104	" " Yorkshire Brown	504
" " " Straightway	105	" Tub Combination Waste	487
" Radiators Angle J.M.T.	92	" " Legs	488
" " " with Union	93	" " Plugs	488
" " " Standard	90	Waste Nuts, Mal. Iron	17
" " " with Union	91	Wastes, Basin, Unique	383-384
" " Corner, J.M.T.	95	" " Brighton	385
" " " Standard	94	" " Combination and Supply	386
" " Globe J.M.T.	87	" " Connections for Com. Overflow ..	385
" " " Standard	86	" " Morrison's Patent	385
" " Lock Shield J.M.T.	97	" " Nonpariel	385
" " " Standard	96	" " Simplex	385
" " Quick Opening	98-984	" Bath, Waste and Supply	410
" " Straightway, J.M.T.	99	" " Steel Clad Baths	412
" " " Peet	100	" " Waste and Washers	413
" Reducing Pressure, Steam, Fisher ..	72	Water Back Couplings	510
" " " Foster	72	Columns, Brass	172
" " " Watson	72	" " Cast Iron	172
" " " McDaniel's	225	Feeder, Low Pressure	54
" " " Water	313	Filters, Superlative	522
" Relief, Brass, Cylinder, Steam ..	109	" " Conrader	523
" " Iron Body, Ashton, Water ..	71	" " Reversible	523
" " " Standard	72	" " Schram, and Water Guard	523
" Safety Brass, Angle	107	" Closets, Diamond, Syphon Jet	576
" " " Cross	107	" " Clawfoot Washout	576
" " " Dead Weight	109	" " Gem Washout	577
" " " Pop	108	" " Inodoro Back Outlet	575
" " " Range Boilers	510	" " Perfect	576
" " Iron Body, Angle	69	" " Primo Domestic	576
" " " Ashton	71	" " " Imported	575
" " " Cross	69	" " Richelieu	577
" " " Marine	70	" " Roman Washout	575
" Sewer	528	" " Star	577
" " Back Pressure	528	" " Stork	577
" Shut off Hydrant	520	" " Titan Washdown	575
" Tank	444-445	" " Victor	459
" Throttle, Brass	106	" " Self Acting, Frost Proof	459
" " Iron Body	73	" Connections for Street Mains	314-315
" Vacuum, for Range Boilers	510	" Gates, Toronto Pattern	313
" Whey Valve for Cheese Factories ..	529	" " Ludlow	313
" Whistle	109	" " Webber	313
Valve Keys, Compression Air Valves ..	112	" Gauges, Compression	161-163
" " Radiator Valves	111	" " Lever Handle	164-165
Vermorel Spraying Nozzles	515	" " Self Closing	165
Veterinary Surgeons Pumps	530	" Gauge Glasses	160
Vises, Pipe	212	" " Valve Automatic	167
" " Hinged	213	" " Heater, Instantaneous	569
" " " Parallel Combination	214	Water Witch Lawn Sprinkler	517
" " Bench	214	Wax Tapers, Gas	556
W		Webber Valves, Brass	103
Wall Brackets, Ornamental	41	" " Iron Body	59
" Coils	47	Weigh Can Plug	529
" Plates, Malleable Iron	17	Whistles, Speaking Tube	535
		" " Steam	136-138

	PAGE		PAGE
Whistle Valves	109	Wrenches, Cock, Mal. Iron	18
Whey Valve for Cheese Factories	529	" Pipe, Alligator	218
Window and Display Fixtures:		" Combination	219
Arms, Bent with Socket	544	" " Stillson's	218
" without Socket	543	" " Trimo	218
Stralght with Socket	543	" Ratchet, Nonpariel	222
Brackets, Adjustable	540		
" Double	540	Y	
" with Set Screws	540	Yacht Fittings, Belaying Pins.....	533
" Plain Arm	540	" Chock	533
" Sliding, Glass Shelves	541	" Cleat	532
" Stationary	541	" Combined Eye and Cleat.....	532
Cornice Fittings	544	" Deck Screw	533
Flanges, Brass, for Standards	542	" Rail, Brass	532
Knobs	542	" Rudder Post	533
Stands, Boots and Shoes	544	" Sheave, Brass	533
" Gents' Furnishings	543	" Skylight Cover	532
" Hat Extension	543	" Stauchion, Brass	532
" Millinery	544	" Stove Pipe Plate	533
" Sliding Brackets	542	" Suction Pump	533
" Wfth Glass Shelves	541	" Turn Buckle, Brass	533
Slides for Standards	542	" Wash Basin	532
Tube, Brass	542	" Water Closet	532
Wiping Cloths	231	Y Branch, Steam	29
Wonder Hose Reel	519	" " Lateral	30
Wrenches, Basin, Buzzles	223	" " Flanged	27
" Monkey, Plumbers'	231	" Soil Pipe	590-591
" Steam Fitters'	219		

